

# THE AMERICAN School Board Journal

October



Oct. 1902.  
Vol. XXV. No. 4.  
SUBSCRIPTION PRICE, \$1.00 PER YEAR.

WM. GEO. BRUCE  
PUBLISHER,  
CHICAGO—NEW YORK.

**VAUGHAN'S**  
**RAFFIA NATURAL SEED STORE.**  
 COLORED  
 486 Randolph Street, CHICAGO.  
 Write for Prices.



## SCHOOL SUPPLIES

FROM A GLOBE TO A THIMBLE

SHIPMENT PROMPT—GOODS RIGHT—  
 PRICES REASONABLE.

Whether you are in a Philippine Island school house or next door to our factory, you can depend upon good treatment.

THE NATIONAL SCHOOL SUPPLY CO.,  
 YOUNGSTOWN, O., U. S. A.



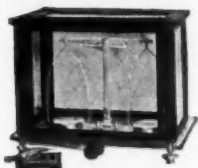
Write for Catalogue

Apparatus for Physics as follows:  
 ROWELL CABINET No. 1.  
 CROWELL CABINET No. 2.  
 REGENTS' SET.

OUR ELECTRICAL OUTFIT.  
 PIECE APPARATUS.

**COLUMBIA SCHOOL SUPPLY CO.**

Formerly the Crowell Apparatus Co.  
 Indianapolis, Ind.



All aluminum; sensible to one milligram.  
 Price with weights \$15.00; fitted with rider \$5.00 extra.

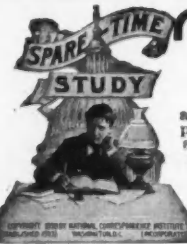
Columbia Program Clock will be ready Oct. 1. On an entirely new plan. Write for circular and price.

Columbia Micrometer measures to 1/4 inch by thousandths of an inch. Price \$2.90.

Write us for prices on Chemicals, Chemical Glassware, Manual Training Benches and Supplies, Material for Art Work, and all General Supplies.

## STUDY LAW

LEADING LAW SCHOOL IN CORRESPONDENCE INSTRUCTION.  
 Established in 1892.  
 Prepares for bar in any State. Combines theory and practice. Text books used are same as used in leading resident schools. Teachers law at your home. Three courses—Regular College Course, Post Graduate and Business Law Course. Approved by the bench and bar. Full particulars free.  
 Chicago Correspondence School of Law, Reapier Block, Chicago.



## Teachers Taught

and qualified for higher positions at increased salaries; in spare moments, without interruption of work or pay. Three courses: Review, for examination; Normal, methods of teaching; Special subjects.

### BY MAIL.

Thorough instruction under personal direction of John W. Holcombe, formerly Superintendent of Public Instruction in Indiana. Small fees—assured results. Write to-day for full particulars, to

National Correspondence Institute,  
 53-76 Second National Bank Building,  
 Washington, D. C.



## FREDERICKTOWN BELLS

have rung in and out the years of more than half a century. Their tone which made them famous is due to their composition. Great volume of sound; deep and rich. Low priced; guaranteed. Free catalog. J. B. Foote & Co., Fredericktown, O.



WORLD'S GREATEST BELL FOUNDRY Estab. 1837. Bells for Colleges, Schools, Etc. Lake Superior Copper and E. India Tin used exclusively. Write for Catalogue to E. W. VAN DUZEN CO. Buckeye Bell Foundry, Cincinnati, O.



ST. LOUIS BELL FOUNDRY. STUCKEBADE BROS., Props. Church Bells, Pans and Chimes. Of Best quality Copper and Tin. 2886 & 2888 S. 3d St., St. Louis, Mo.



## A FLAG

For Every

School House

Best Wool Flags at Lowest Prices Ever Offered.

Size	Price	Size	Price	Size	Price
2x3 ft.	\$ .75	6x10 ft.	\$4.25	8x15 ft.	\$7.60
3x5 ft.	1.50	6x12 ft.	5.00	10x15 ft.	9.25
4x6 ft.	2.15	7x14 ft.	6.50	10x18 ft.	10.85
5x8 ft.	3.00	8x12 ft.	6.25	12x20 ft.	14.20
5x10 ft.	3.75				

These flags are made of the best all wool United States government standard bunting, color absolutely fast, proper number of stars, triple sewn both sides, corners reinforced. The workmanship is the very best throughout. Flags will be sent to School Boards on approval. If you desire to raise the money by subscription, we will cheerfully furnish flag tickets free of charge. Write for further particulars. Other sizes quoted upon request.

The H. G. Phillips School Supply House  
 Williamsport, Pa.

## AMERICAN FLAG MFG. CO.

EASTON, PA.



Makers of the Celebrated

DOUBLE-WARP  
 WOOL BUNTING  
 FLAGS.

These flags are made to meet the requirements of the Government, and those sold to the general public are of the same quality as are furnished to the Government. We make only one grade guaranteed as to durability of color, strength of material and workmanship to be the best flag produced.



## SYRACUSE TEACHERS' AGENCY

Without Charge, this Agency recommends College and Normal Graduates, Grade, and Special Teachers to Homes, Colleges and School Officials. It has music and Art Departments. THE SYRACUSE TEACHERS' AGENCY has earned an enviable reputation, and leads its would-be competitors because of its Fair Dealing and Reliability. OUR FAITHFUL SERVICE GUARANTEES SATISFACTION.

NOAH LEONARD, Ph.D., Prop'r.,

204 Moore Building, SYRACUSE, N. Y.

## THE PRATT TEACHERS' AGENCY

Recommends teachers to colleges, schools, families.  
 Advises parents about schools.

WM. O. PRATT, MANAGER. NO. 70 FIFTH AVE., NEW YORK.

ARE YOU LOOKING FOR A SUGGESTFUL TEACHER? WE WILL BE GLAD TO SERVE YOU.  
 THE MARTIN TEACHERS' BUREAU,  
 FLUSHING, MICH.

## THE N. E. TEACHERS' EXCHANGE.

I. S. PRICE, Manager. Send for Manual. CHAS. C. PRICE, Gen. Agt.

OFFICES: 186 Weybosset Street, Providence, R. I. | 563 Providence, R. I.  
 902 Main Street, Hartford, Conn. | 852-3 Hartford, Conn.

OBJECT—To facilitate the employment of teachers through School Officers.  
 Normal and College Graduates a specialty.

### REMOVAL

The TEACHERS' EXCHANGE of Boston will be located, after May 1st, in convenient and attractive rooms in the new WALKER BUILDING, 120 BOYLSTON Street. Old and new friends are invited to call. New Manual, of interest to earnest, ambitious teachers, sent free on application.

## THE ALBERT TEACHERS' AGENCY.

Established Seventeen Years. Largest and best known Agency in the West. 80 page Year Book tells all about our business. Send for it.

C. J. ALBERT, Manager.

FINE ARTS BUILDING, CHICAGO.

## FISHER TEACHERS' AGENCY

A. G. FISHER, Prop.

LONG EXPERIENCE. PROMPT, RELIABLE.

120 Tremont Street, BOSTON.

## THE CLARK TEACHERS' AGENCY.

B. F. CLARK, . . . Manager.  
 Thirteen years of Honest Business Methods have given us a Permanent Clientage among Best Schools in the West. Send for "Our Platform" for 1902.

378-388 Wabash Avenue, CHICAGO.

## Lewis Teachers' Agency

Good Teachers always in demand! This agency is prepared to furnish at any time without expense, accurate and confidential information concerning teachers for all kinds of positions. Candidates are selected with special reference to the particular position to be filled. H. A. LEWIS, Manager, Muskegon, Mich.

The Independent Teachers' Agency, of Waterloo, Ia., Will furnish teachers for any kind of position and guarantee satisfaction. Correspondence from school authorities solicited. Superintendents and Boards, wire us, if necessary.

## SCHERMERHORN TEACHERS' AGENCY, 3 E. 14 St., NEW YORK.

Oldest and best known in U. S. Est. 1855.

JOHN C. ROCKWELL, Mgr.

## THE FISK TEACHERS' AGENCIES.

EVERETT O. FISK & CO., Proprietors.

Send to any of these Addresses for Agency Manual, Free.

4 Ashburton Place, Boston.  
 156 Fifth Avenue, New York.  
 1505 Penn. Ave., Washington.  
 203-207 Michigan Blvd., Chicago.  
 414 Century Building, Minneapolis.

533 Cooper Building, Denver.  
 Hyde Block, Spokane.  
 80 Third Street, Portland.  
 420 Parrott Building, San Francisco.  
 525 Stimson Block, Los Angeles.

NATIONAL EDUCATIONAL BUREAU Established in 1884 by its present Manager. Efficient assistants. A wide acquaintance among educators in prominent positions. Superior field. Courteous treatment. Prompt attention. Efficient service.

Circulars free. Address ROBERT L. MYERS, Manager, Harrisburg, PENNSYLVANIA.

## Do You Know

That the best way to secure a thoroughly competent superintendent, principal or teacher is to apply to the

## ALBANY TEACHERS' AGENCY

If you do not know this send for circulars and learn what we can do for you.

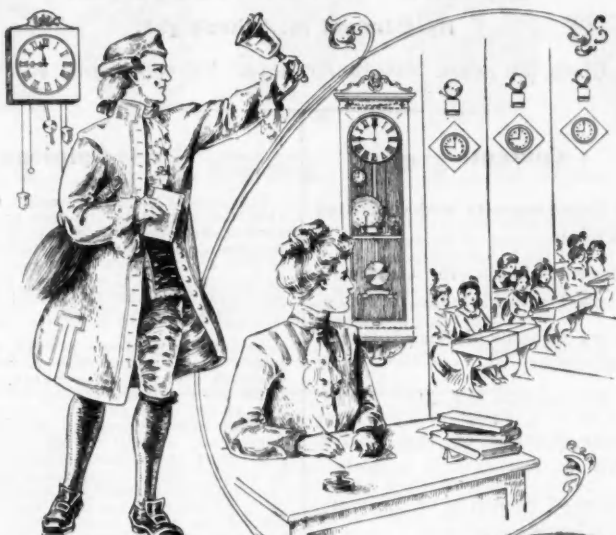
We are prepared to make prompt nominations for all kinds of school and college work. We can increase your range of choice and also save you time and trouble. Our services cost you nothing and we shall be glad to hear from you when you have vacancies to fill.

HARLAN P. FRENCH,

Correspondence Solicited.

81 Chapel St., ALBANY, N. Y.





*Y Olde Fashion'd Schoolmaster, his Clock and Bell.*  
*Principals and teachers of today need have no care or worry in regard to the times for the various periods and the correctness of the clocks in the different rooms.*

### THE FRICK AUTOMATIC PROGRAM CLOCK

rings Electric Bells and operates SECONDARY CLOCKS in all rooms, departments and buildings, the Electric Bells being rung automatically on the EXACT MINUTE set down in the program for beginning and closing every period, assembling and dismissing school, etc., while the secondary clocks run on EXACT TIME with the Program Clock.

Promptness and punctuality are secured, discipline promoted and teachers relieved of one of the most perplexing duties of the school room.

You will be interested in knowing more about the Frick Automatic Program Clock, and its advantages in school management and we will take pleasure in mailing you catalogue and full information, if you will mention this Ad.

FRED. FRICK CLOCK CO.  
 Waynesboro, Pa.

## Hygienic <sup>School</sup> Room Sweeping

The principle embodied in the kerosene oil method of sweeping as employed in our brushes is the only logical solution of the great dust and disease evil. The world's only

## SANITARY DUSTLESS BRUSH

is employed and recommended by school boards and school superintendents in all parts of the United States. Dust is reduced 97 per cent. and all bacteria destroyed where our brushes are in use.

Endorsed by the Engineer of the Lawrence University.

APPLETON, Wis., August 13, 1902.

I have used the Milwaukee Dustless Brush for the last two years with very good results at the buildings of Lawrence University.

These brushes, when handled right make a clean sweep, raise no dust and save labor and time.

I am very glad to recommend these brushes to all who have care of large buildings, etc., especially to janitors of schools and churches.

PAUL SEITH, ENGINEER.

We will send a brush to any School Board or Superintendent on trial.

## Milwaukee Dustless Brush Co.,

122-124 Sycamore St., Milwaukee, Wis.

## A Satisfactory Ink-Well!



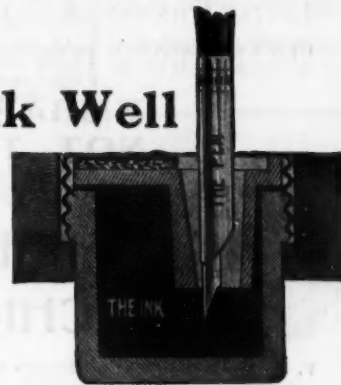
PATENTED.

### Have You Ever Seen One?

The "Jacobus Pneumatic" has stood the test of years and is endorsed by thousands of school officials and teachers. It is simple, durable and economical. Always clean. Always noiseless.

## The Jacobus Pneumatic Ink Well

Prevents evaporation — the ink never thickens. Requires filling but once a year. Prevents the pen from taking too much ink, soiling of fingers, or to drop on paper, desk or floor. Write for free samples.



**WEBER COSTELLO FRICKE CO.**  
 2620 TO 2626 SHIELDS AVE. CHICAGO, ILL.

## The Craig Keyless Locks

The Ideal Lock for HIGH SCHOOL Lockers, Laboratory and Drawing Desks. No Keys. No Dial. 3000 in Chicago High Schools alone. 1000 in Milwaukee High Schools. 1200 specified for Rochester High School.—Detroit, Joliet, Baltimore High Schools, largest Universities, Y. M. C. A's, etc., in the country, large users of Craig Locks. 50,000 in use to-day. Our Catalogue tells all about it.

CRAIG KEYLESS LOCK CO., 548 N. Halsted Street, CHICAGO, ILL.

## You cannot get along without



Why do you not make your own Writing Fluid from our Mineral Ink Powders?

WE put these powders up in metal clasp envelopes each containing material sufficient to make either 1 quart or 1 gallon of INK. Ours is a very convenient and cleanly ink as it can be prepared in any quantity and at any time desired. We will gladly fill any



orders placed with us with the understanding that the ink will cost you nothing if found unsatisfactory. Sent by mail. WE PREPAY ALL SHIPPING CHARGES.

PRICE LIST—Powder for Black Ink in Quantities to make: Five Gallons, per gal., 50c.; Three Gallons, per gal., 65c.; One Gallon, 90c. Special prices in larger quantities. If you want a RUSH ORDER place it with us and pay for it if you like the ink. A sample FREE if you ask for it.

MINERAL TABLET INK CO., Pueblo, Colorado.



SQUIRES' NO. 3, Flush Top Ink Well.

Squires Ink Well Co.

The long and extensive use of the No 3 Flush, proves it to be an excellent ink well and at a low price. Write for samples and prices.



SQUIRES' No. 5, Swing Top Ink Well.

SQUIRES INK WELL CO.,

118 Seventh St., Pittsburg, Pa.

## Somebody Sooner or Later Somebody

—some progressive teacher—will ask you if you have ever seen **The Little Chronicle**. If you are not aware of the fact that THE LITTLE CHRONICLE marks an epoch in education, you should send for free sample copies and the "two-cent-a-week plan" as soon as you read this. THE LITTLE CHRONICLE is one of those phases of modern educational progress which it is

**EMBARRASSING  
NOT TO KNOW.**

Address Department M.

**THE LITTLE CHRONICLE  
CHICAGO.**

P. S. We buy bright children's sayings.

### I PAY LIBERALLY FOR INFORMATION.

If you know where goods in my line will be purchased be sure to write to me, for it will pay you. (Mention School Board Journal.)

#### LISTS OF CATALOGS.

No. 4. Physical and Chemical Apparatus. No. 10. Book Cases.  
No. 6. Kindergarten Goods. No. 11. Church Furniture and Opera Chairs  
No. 9. Office Furniture. No. 15. School Supplies, Apparatus and Furniture.

**E. W. A. ROWLES,** 177 - 179 MONROE ST.  
CHICAGO.

## School Architecture.

By Edmund M. Wheelright.

Cloth, 350 pages. 250 illustrations. Price, delivered, \$5.00.

### Contents

General Requirements and Features of Schools.  
Elementary Schools in Germany, Austria, Switzerland and France.  
Elementary Schools of Scandinavian Countries.  
English Elementary Schools.  
Elementary Schools of the United States.  
Comparison of Features of Elementary Schools.  
Secondary Schools of Northern Europe and England.  
Secondary Schools of the United States.  
Manual Training and Mechanic Arts High Schools.  
Training School for Teachers.  
Heating, Ventilation and Sanitation.  
Specifications for an American School.

### Press Opinions

It is hardly an exaggeration to say that this book combines the best ideas of foreign architects with those of American designers. The author has, in fact, striven to give a general view of typical examples of the schools in most of the countries in which public education is well developed.  
—*The Sun, Baltimore, Md.*

At length we have a work on school-house architecture that is worthy the demand, and for its preparation there is cause for gratitude.

It is the first adequate treatment the subject has received at the hands of an American. It will be short of criminal neglect if any school board allows itself to accept schoolhouse plans until it has carefully consulted this work. It is the duty of every friend of the schools to spread the news that there is a masterpiece on schoolhouse architecture.  
—*Journal of Education.*

It represents not only the work of the student but of the practicing architect who has studied his subject because of his own personal need and practice. The book is a most valuable one, and summarizes a very difficult phase of modern architecture in a very admirable manner.

Written primarily as a text-book of American school architecture, the book is a thoroughly comprehensive treatise of its subject, well condensed and arranged, and treating of English and European schools wherever they have been needed to explain the general subject. It seeks to give a general view of typical examples of the schools in most of the countries in which public education is well developed.  
—*Scientific American.*

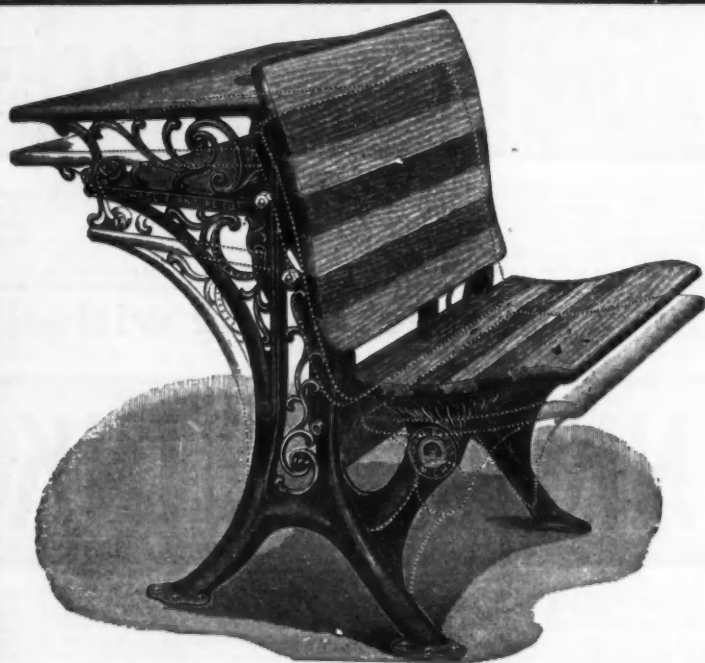
AND MANY OTHERS.

### COMBINATION OFFER

One copy School Architecture..... \$5.00  
American School Board Journal, 1 yr. 1.00  
\$6.00

BOTH FOR  
\$4.00

Wm. Geo. Bruce, General Agent,  
63 Fifth Avenue, New York City.  
Milwaukee, Wis.



# THE PRIDE OF AMERICA THE EMULATION OF THE WORLD

THE MOST FAMOUS SCHOOL DESK EVER MADE

## Grand Rapids Combination Adjustable Desk

BALL BEARING HINGES—PERFECT AND POSITIVE ADJUSTMENT—DOVETAIL FASTENING  
THE ENTIRE WORLD AWARDS TO IT THE PALM OF SUPERIORITY

## Grand Rapids School Furniture Works,

Eastern Sales Office,  
22 West 19th St., New York.

Western Sales Office,  
Corner Wabash Ave. and Washington St., Chicago.  
Works, Grand Rapids, Michigan.





## CLASS PINS.

**WRITE US.** { Quantity Used.  
What Class Colors.  
Name of Class. }

Pins in silver or gold, enameled in one, two or three colors. If interested in fine society writing paper and envelopes send for samples, we make the finest monograms and crests at the most reasonable prices. 50 fine visiting cards and plate \$1.00.

**BUNDE & UPMEYER, Jewelers.** Pabst Building, MILWAUKEE, WIS.



### The GEM PENCIL SHARPENER

Sharpens both Lead and Slate Pencils

"It gives me great pleasure to recommend the 'Gem Pencil Sharpener'. It does the work well and quickly. This last is of great importance for school work. This 'Sharpener' is in satisfactory use in very many of the cities and towns of the State. From what I personally know of the results here and elsewhere, I am fully convinced that the 'Gem' is the very best sharpener on the market. In fact, I do not believe that there is any other which at all compares with this one for use either in the school or the office."

Price \$3.50. Member of Mass. State Board of Education

Send for descriptive circular. Manufactured by F. H. COOK & CO., Leominster, Mass.

## WALL PICTURES FOR SCHOOLS.

About ONE HUNDRED AND FIFTY subjects ranging in price from \$1.00 to \$5.00 and in size from 13 x 17 to 19 x 25 inches. In most cases reproductions of originals from the Masters. Several Architectural Subjects. Prints in Black and White, in Brown and in Color.

**THE PRANG EDUCATIONAL COMPANY,**

Fine Arts Building, CHICAGO.

## WITH GAS at the Price Prevailing in Milwaukee GAS ENGINES

Furnish the Cheapest Power Available  
and with only ordinary care

### THE MOST RELIABLE

without requiring more than a  
minimum of attendance

16 Gas Engines, averaging 13 Horse Power each, in use in  
Milwaukee Schools for operating ventilating fans.

**THE MILWAUKEE GAS LIGHT  
COMPANY.**

## Fidelity School Desks



Will cost you more than some cheaply made desks that you can buy, but the slight additional cost is a gilt-edged investment which is represented by SUPERIOR Material, Style and Finish.

We are positively independent of the attempted MONOPOLY in this business and if you want the Highest Grade goods at Honest Prices write for our Catalog.

Exclusive Territory to Good Agents.

### Fidelity Adjustable Chair Desk

Unexcelled in Material and Finish. Unequaled in Comfort and Convenience. Made in solid Cherry and Quartered Oak. The highest type and latest improved School Furniture made

### Fidelity Automatic Desk

Perfect in Design and  
Highly Finished.

A Marvel of Strength  
and Beauty.

It is not the lowest in price, but at the price we will quote you it's the best value.



Manufactured by **THE J. M. SAUDER CO.,** Marietta, Penna.



**HANEY SCHOOL FURNITURE CO.,**  
GRAND RAPIDS, MICH.

### Faultless and Standard Automatic Desks.

PERFECT IN { DESIGN,  
CONSTRUCTION,  
FINISH.

Noiseless in operation.

Write for circulars and price list. Liberal terms to agents.

## IT IS NOT THE TRUTH

That some of our competitors speak when they assert that they, and they only, are in no manner connected with or controlled by the "Trust" or other School Desk Combination.

## IT IS THE TRUTH

That we, also, are independent of all other Persons, Concerns, or Combinations.  
That our Seating equals any made in COMFORT, HEALTHFULNESS, DURABILITY AND CONVENIENCE.  
That our prices are as low as is consistent with GOOD MATERIALS and WELL MADE Goods.  
That our facilities for the manufacture are not excelled by any in the business.

We make School, Church, Opera, Hall and Assembly Room SEATING, each unexcelled in its line; together with all accessories and supplies that the buyer may want, to supply, fully, every need. It costs but a stamp to write us.

**MOORE MANUFACTURING COMPANY,**  
SPRINGFIELD, MO., U. S. A.

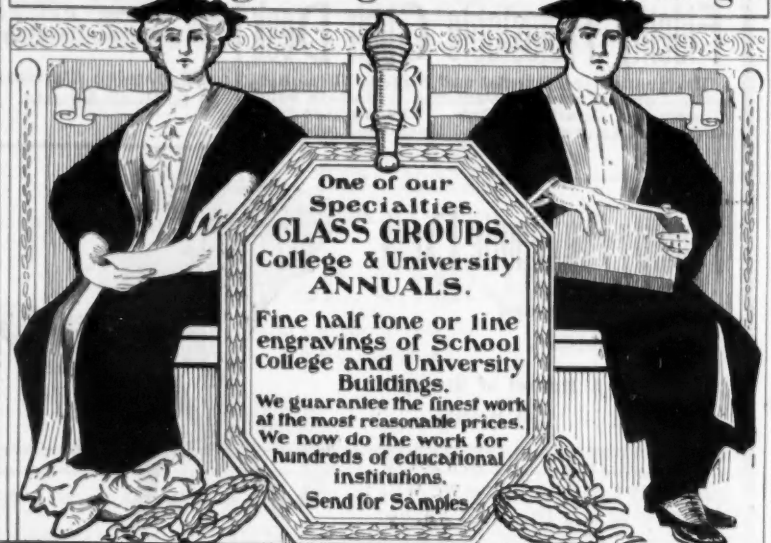
## WATER COLORS.

The Prang THREE COLOR BOX is the best in the market and is used more than all other similar boxes combined. Loose Cakes put up in packages of one dozen for refilling boxes. Boxes with brushes \$3.00 per doz.; without brushes, \$2.40 per doz. Discount to the trade and to schools.

**THE PRANG EDUCATIONAL COMPANY,**

Fine Arts Building, CHICAGO.

## We Make Engravings for Schools & Colleges



**Clark Engraving Co.**  
MILWAUKEE. WISCONSIN.



Sets, complete with Book of Instruction, \$1.50 and upwards; or Single Tools, any shape. Send stamp for catalogue.  
**HEADQUARTERS FOR SLOYD.**  
122-126 Summer St.  
**Chandler & Barber, BOSTON.**



MANUFACTURED

FOR THE  
**TRADE.**

**HARRY D. KIRK,**  
71 W. Jackson St.,  
CHICAGO, ILL.



Send 20 cents for a complete report of the National Convention of School Boards.  
W. Geo. Bruce, Pub.  
New York, Chicago Milwaukee.



Copyrighted.

School and Office Furniture and Supplies of  
ALL KINDS.

Desks, Chairs, Maps, Globes, Charts, Blackboards, Bells, Flags, Registers, Dictionaries, Mimeographs, Blanks and Blank Books, in fact **EVERYTHING** for School Officers, Schools and Teachers.

NOT IN THE TRUST.

Correspondence solicited. Satisfaction guaranteed. Agents Wanted Everywhere. Address

L. A. MURRAY & CO., Kilbourn, Wis.

## School Boards

Should not fail to secure our Prices and Samples before placing Fall Orders. Send your estimates. ✂ ✂

## Central School Supply House

898 Broadway,  
NEW YORK.

315 Wabash Ave.,  
CHICAGO.

74 N. Broad St.,  
ATLANTA, GA.

## TEMPERATURE REGULATION

No modern building can be said to be complete without

### THE JOHNSON SYSTEM

#### HEAT

All excess heat is avoided. The Johnson System works automatically and accurately.

#### CONTROLS

The temperature is kept at 70 degrees in all parts of a building if desired. The Johnson System controls the temperature at any degree.

#### COLD

The Johnson System prevents the rooms from becoming chilled. An even temperature is maintained.

### Schools and Colleges

Hundreds of educational institutions throughout the United States are equipped with the Johnson System of temperature regulation. The highest testimonials are given by the greatest authorities in the country.

#### SAVES FUEL

The fuel bill suffers always when the temperature is irregular. Every particle of excess heat eats into the coal pile.

#### SAVES HEALTH

An even temperature in a school room or home avoids coughs and colds, insures comfort and saves doctor's bills.

#### SAVES MONEY

The Johnson System saves 25 per cent. of the annual fuel expense. It saves its own cost in a few years. With high fuel prices it saves its own cost in one year.

School authorities contemplating the erection of a new building should write for information.

### Johnson Service Company

New York	Detroit	Boston	Toronto
Philadelphia	Indianapolis	Buffalo	Minneapolis
Pittsburg	Chicago	St. Louis	Milwaukee





# THE OXFORD DESK.

# NEED MORE BE SAID.

# IT

HAS

The best thoughts

The best material

The simplest construction

The most perfect detail ever assembled in

# A School Desk.



# IT

GIVES

The best satisfaction

The most comfort

The best service

The greatest value ever given by

# A School Desk.

MADE ADJUSTABLE OR NON-ADJUSTABLE. SEND FOR CIRCULARS.

## AMERICAN SCHOOL FURNITURE CO.,

19-21-23 West 18th Street, NEW YORK.

94 Wabash Avenue, CHICAGO.

# AMERICAN School Buildings

Special attention given to the designing and construction of school buildings.

We solicit correspondence from school boards contemplating the erection of school buildings in all parts of the United States.

*Watch this space for new designs and announcements of publications on various phases of school house construction.*

## W. R. PARSONS & SON CO.

School House Architects,

Mail Address, Drawer 1101, DES MOINES, IA.

WE MANUFACTURE THE  
**Tarr Blackboard Pointers,**  
(Rubber Tips.)

**Gifford Air-Tight Ink Wells**  
(Cork Covers.)

Best Goods in the Market. Prices Right.

**THE W. A. CHOATE CO.,**  
General School Furnishers.  
42 State Street, (Opp. P. O.) ALBANY, N. Y.

## SCHOOL SUPPLIES

...and...

## FURNITURE.

**THE CAXTON COMPANY.**

CHICAGO, ILL.

NOT IN ANY TRUST.

# Do You Own a REGINA MUSIC BOX?

## The Best in the World.



Plays anything and everything.

Prices from \$10 to \$400.

It is an ornament to any room, and as it is the household's best entertainer, it always has the place of honor.

The REGINA is unequalled in the sweetness and resonance of its tone qualities, and marks a new era in Music Boxes. It is the

**Only Guaranteed Music Box.** ♪ ♪

Hear it Play.

SOLD BY

...LEADING DEALERS EVERYWHERE...

OR DIRECT BY

# REGINA MUSIC BOX CO.,

13 East 22nd, New York, or 258 Wabash Ave., Chicago.

## An Orderly School....



Is also usually a well equipped School. We supply everything from a pencil to a black-board.

**The Olmsted Artificial  
or "Seamless Slate"**

Is the best, cheapest, most servicable and most durable now in the market.

We have equipped thousands of schools. Our work speaks for itself.

Agents Wanted Everywhere

**Standard School Furnishing Co.,** 149-150 Michigan Avenue  
CHICAGO, ILL.



## Silicate Goods.

**SLATED CLOTH, SLATED PAPER,  
BLACKBOARD, SLATING FLUID,  
BOOK SLATES, CHAMOIS ERASER,**

ANTISEPTIC SLATES require no moisture to erase pencil marks. Endorsed by New York Board of Health. Adopted by Boards of Education of New York, Cleveland, O., and Philadelphia, Pa.

**BLACKBOARDS—ALL, ROLL AND REVOLVING.**

The Holly Antiseptic Slates, Antiseptic Kindergarten Slate (with six beautiful pictures) will not break, are light and noiseless.  
The only slate the use of which is permitted in the Public Schools by the Board of Health of Greater New York. Beware of imitations.

**THE HOLLY SILICATE SLATE CO.,**

180 Fulton Street (near church), NEW YORK.



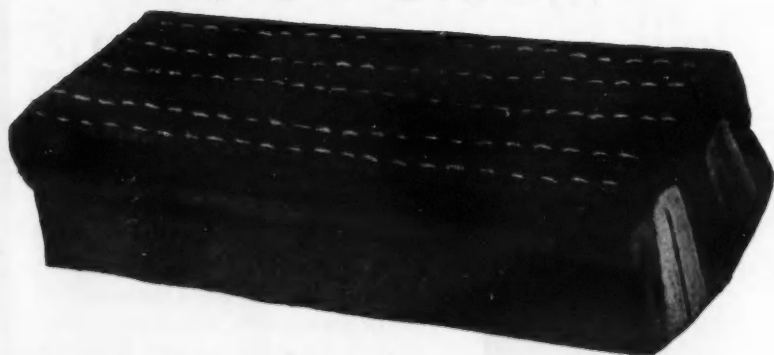
## LAPILINUM BLACKBOARDS

Silicate Blackboard Stone Cloth, 3 feet wide by 9 feet long, \$1.50, and 3 feet by 6 feet, \$1.00; 3 feet by 3 feet 50 cents, and by the roll of 12 yards, \$6.00 per roll. Can be tacked on the wall by any one. Wears equal to stone slate.

The surface is so fine you cannot hear the crayon when writing or drawing on the Lapilinum. We guarantee it. Send for sample. Catalogue on all Silicate goods will be mailed on application. Manufactured only by the NEW YORK SILICATE BOOK SLATE CO., Corner Vesey and Church streets, New York. We have supplied the Boards of Education of New York city and Philadelphia, Pa., for 29 years; also most all the Boards of Education in the large cities.

## Dann's Noiseless Eraser.

All Wool Felt. See those Stitches?



No dust, no noise, no injury to Blackboard Surface.

MADE entirely of firmest wool felt, without wood, metal, glue or cement, the face being stitched to the back in such a firm and substantial manner as to make it practically indestructible

**E. G. DANN CO.,**

211 Madison St., Chicago.

## Thos. Charles Company.

Are now headquarters in the Northwest for  
**RAFFIA, RATTAN and CARDBOARD CONSTRUCTION PAPER,**

And also a great variety of other materials for hand work.

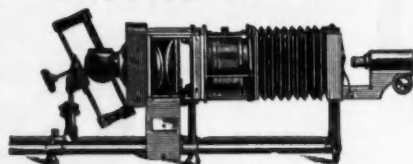
ALSO WESTERN AGENTS FOR THE  
**BROWN FAMOUS PICTURES.**

DEALERS IN  
**Kindergarten Materials and Primary School Aids.**  
195-197 Wabash Avenue, CHICAGO.  
For Prices and Goods address them as above.

## MCINTOSH STEREOPTICON...COMPANY...

UP TO DATE

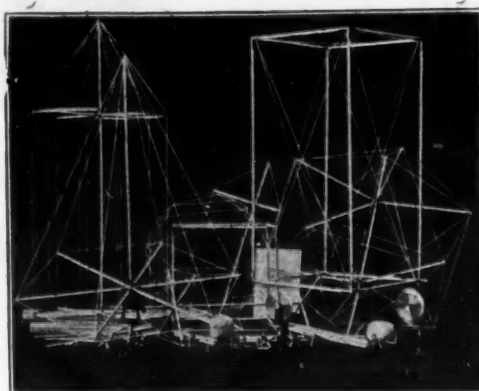
**Projection  
Apparatus**



**Microscope  
Attachments**

Write to us for Catalogue of School Lanterns and Slides  
**CHICAGO, ILLINOIS.**

## HANSTEIN'S SKELETON MODEL AND GONIOSTAT



A Teacher's class room device for material demonstrations in Freehand and Constructive Drawing, Arithmetic, Plane and Solid Geometry, Projection, Perspective, Shadows, Stereometry, Stereotomy, Axonometry, Crystallography, and Astronomy.

An arrangement with which the regular, and an endless number of irregular surfaces and solids—their intersections and penetrations in skeleton form may be built by the student or teacher in the same time it will take to make a blackboard sketch.

The models are two feet high, very light and practically indestructible, are easily visible by every pupil of a large class room and with the application of the "Goniostat" may be placed in any position in space and rotated in horizontal circles, in vertical circles and in any inclined plane in space. Manufactured by

## The RANDOLPH JONES MFG. CO.,

241 Wabash Avenue, CHICAGO.

Address Prof. HERMANN HANSTEIN, Supervisor of Drawing Chicago High School, Director of the Drawing Department Chicago Mechanics Institute, 361 Mohawk St., Chicago, Ill.

## "SHORTHAND FOR HIGH SCHOOLS"

Benn Pitman Phonography

BY THE WORD METHOD.

Prepared especially to meet the requirements of High Schools. Written by a teacher of much experience in High School and Academic work, who has a national reputation as a shorthand author. Sample Pages upon Application.  
The Arthur J. Barnes Pub. Co., St. Louis.

We recently mailed you one of our illustrated price lists. HAVE YOU PRESERVED IT? If not, we shall be pleased to send you another one on request.

## WE ARE SPECIALISTS

In the manufacture of superior SCHOOL MAPS AND CHARTS, and offer special inducements also in other goods that we handle, such as GLOBES, DICTIONARIES and DICTIONARY HOLDERS, BLACKBOARDS AND BLACKBOARD MATERIALS, ETC.

WESTERN PUBLISHING HOUSE,  
358 DEARBORN ST., CHICAGO, ILL.

## OUR SYSTEM

For preserving books is now complete.

### TRIANGULAR BOOK COVERS

For outside Protection

### MULTUM IN PARVO BINDER No. 2.

(A linen gummed tape for fastening loose lids, leaves, etc.)

### ADHESIVE TAPE.

(Gummed transparent tissue paper for repairing torn leaves, etc.)  
A school room is not complete without them.  
A boon to teachers. A saving to taxpayers.

Samples and price list on request.

## TRIANGULAR BOOK COVER CO.,

Lock Box 151. MUNNSVILLE, N. Y.

## COLOR CRAYONS.

SEVEN COLORS in wooden box—Red, Orange, Yellow, Green, Blue, Violet, Black. May be used dry, by wetting the point, or by wetting the paper. Price per dozen boxes \$0.75, with discount.

**The Prang Educational Company,**  
Fine Arts Building, CHICAGO.



THE PUBLISHERS

OF

## Kindergarten Review

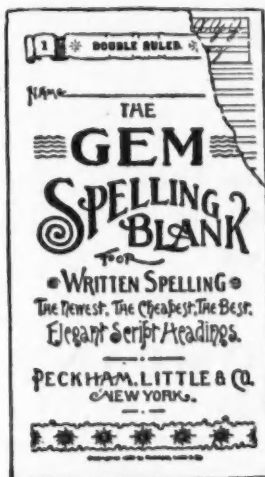
**A** NNOUNCE with satisfaction that they have concluded arrangements with the AMERICAN NEWS COMPANY to have the REVIEW put on sale by all their Agencies throughout the country, so that the REVIEW will be on the counter of every important bookstore, stationer, and news dealer.

The Kindergarten idea stands for all that is highest and best in education and in all the training of children, and the literature of the Kindergarten attempts to mold and elevate the home life as well as the school. In fact, in Froebel's thought the mother was the chief instrument for reaching the plastic mind of the child.

KINDERGARTEN REVIEW, with the year just beginning, will endeavor to be of increasing value to all its patrons—kindergartner, teacher, and mother. The price remains at \$1.00 a year. Ten cents a copy.

**MILTON BRADLEY COMPANY,**  
Springfield, Mass.

## NEW PUBLICATION!



### SPECIAL NOTICE.

We desire to call your attention to the  
**GEM SPELLING BLANKS,  
MEDIUM SLANT.**

## SEMI-VERTICAL

**No. 5.** For Primary and Intermediate Grades  
(DOUBLE RULED.)

Medium Slant, Script Headings  
Twenty words to a Lesson.

**No. 6.** For Grammar Grades. (Single Ruled.)

Medium Slant, Script Headings.  
Twenty words to a Lesson.

Write for Samples and Prices.

**PECKHAM, LITTLE & CO.,** College and School Supplies,  
63 East Eighth Street, NEW YORK.

**IRISH'S AMERICAN AND BRITISH AUTHORS** leads them all. It has been adopted for use in the high schools of Cleveland, Columbus, Zanesville, and many other cities and towns in Ohio and other states. Retail price, \$1.35. Sample copy for examination with a view to introduction to any Superintendent, Principal of High School, or Teacher of Literature in High School or College, prepaid for \$1. If adopted, the \$1 paid for sample copy will be returned if half dozen are ordered for introduction. Liberal exchange prices.

**FRANK V. IRISH, 315 Wabash Avenue, Chicago, Ill.**

## Brumbaugh's Standard Readers Brooks's Famous Arithmetics Standard Vertical Writing Westlake's Common School Literature

No better books on these subjects.

**CHRISTOPHER SOWER COMP'Y**  
614 Arch St., Philadelphia.

I was much pleased with Nichols's Graded Lessons in Arithmetic, when I first examined them, and since their introduction into our schools they have fulfilled my most sanguine expectations. They are carefully planned, thorough and systematic in grading, and more than all else well adapted to train pupils to think for themselves. From Mr. Edwin S. Thayer, Principal of Davis School, Fall River, Mass.

Nichols's Graded Lessons are in seven books, a book for each school year. They are proving a remarkable success.

Sample copies will be mailed for 15 cents.  
Correspondence Solicited.

**THOMPSON-BROWN & CO.,** BOSTON CHICAGO NEW YORK

**KRONE BROTHERS,**  
24 Park Place, New York.

PUBLISHERS OF  
Paragon System of Penmanship.  
Paragon Series of Drawing Books.  
Krone's System of Industrial Drawing.  
Krone's Map Drawing Books.  
Krone's Map Drawing Sheets.  
Full Line of Blank Copy and Composition  
Books and School Stationery.

**FRENCH**  
and other  
foreign  
**BOOKS**

The Sauveur, Bercy, Du  
Croquet and other well  
known methods for  
teaching Modern Lan-  
guages are published by  
**WILLIAM R. JENKINS,**  
48 St. & Sixth Ave., N. Y.  
Catalogues and all information  
sent when required

### A MODERN METHOD TEXT-BOOK IN COMPOSITION AND RHETORIC FOR SCHOOLS BY

**ROBERT HERRICK, A. B., and LINDSAY TODD  
DAMON, A. B.,** both of the Department  
English, in the University  
of Chicago.

No matter what text-book is being used,  
every teacher of English should avail him-  
self of the material and suggestions of this  
book. Mailed on receipt of price, \$1.00.  
Cloth, 476 pages, with full Index and Synopsis

**Scott, Foresman & Co.**  
PUBLISHERS,  
387-388 Wabash Avenue, CHICAGO, ILL.

### NO HIGHER INDORSEMENT

## ISAAC PITMAN'S SHORTHAND

Officially and Exclusively Adopted  
by the

### NEW YORK HIGH SCHOOL OF COMMERCE

(Under Control N. Y. Board of Education.)

"Isaac Pitman's Shorthand Instructor,"

Revised 20th Century Edition now Ready.  
276 pp., Cloth, \$1.50  
Write for "Reasons Why."

**Isaac Pitman & Sons,**  
33 Union Sq., NEW YORK.

# The Macmillan Company,

## THIRTY NORMAL SCHOOLS

In the Middle West already use the

**TARR & McMURRY  
GEOGRAPHIES**

In their practice schools

During the coming year, Hundreds  
of Superintendents and Teachers in  
Graded Schools will use the

## New Two-Book Series

Introductory Geography, - - - \$0.60  
Complete Geography, - - - 1.00

Recent Wisconsin Adoptions. Fond du Lac, Washburn, Kaukana, Platteville Normal

### Foundation Lessons in English

This excellent series of Language books has just been completed  
by the publication of

### Foundation Lessons in English Grammar

Book I. 4th and 5th, 40c. Book II. 6th and 7th, 40c.  
Book III. 8th grade, 40c.

## Botsford's Ancient History

Is Just Published

**THE MACMILLAN COMPANY**

New York

Boston

378 Wabash Ave., CHICAGO

San Francisco

Atlanta

**A Unique Series of Historical Readers**

**STORIES OF HEROES.** Edited by CHARLES B. GILBERT, Superintendent of Schools, Rochester, New York.

**Heroes of Myth.** By LILLIAN L. PRICE, Normal and Training School, Newark, N. J., and CHARLES B. GILBERT. Illustrated. (Just ready.)  
**Wandering Heroes.** 191 pp. By LILLIAN L. PRICE, Normal and Training School, Newark, N. J. Illustrated. 207 pp. Introductory price, 50 cents.

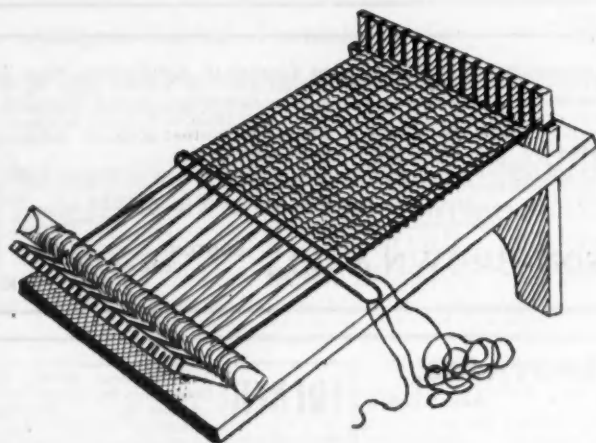
The stories in this volume meet the child's appeal for the marvellous. They are of value also as a preparation for later reading of the world's great epics.

This volume pictures some of the great "wanderers" of history. Subject and treatment alike meet the child's developing demand for true stories.

Other Volumes in Preparation

**SILVER, BURDETT & COMPANY**  
 NEW YORK BOSTON CHICAGO

**HOOVER COLONIAL LOOM**



Loom and  
 Drawing  
 Board  
 Combined

Size  
 7x10 Inches.

For use in Kindergarten and Primary Classes.

Write for prices and descriptive circulars.

Address **J. W. SCHERMERHORN & CO.**  
 KINDERGARTEN and SCHOOL SUPPLIES.

8 East 14th Street.

NEW YORK CITY.

**Twentieth Century Text - Books**  
**COMMERCE AND INDUSTRY**

Now Ready

**An Elementary Commercial Geography**

By Cyrus C. Adams, F.A.G.S., Editorial Staff of the *New York Sun*, formerly President of the Department of Geography, Brooklyn Institute of Arts and Sciences, (Author of a *COMMERCIAL GEOGRAPHY*, Twentieth Century Text - Books, Price, \$1.30). 12mo. Cloth.

This is not an abridged edition of the author's highly successful "Commercial Geography" (for secondary schools.) It is an entirely new book.

Simplicity of style and interest of matter have been required in each statement; minutiae avoided; only the broader aspects treated; few or no footnotes. Fully illustrated with numerous maps, diagrams and half-tones.

This book gives the characteristic element in a practical education; in fact it Americanizes a boy and provides him with just the equipment essential in a business country. It brings out the commercial powers of the United States in a way that is entirely within the realization and intelligence of grammar school maturity.

Burdick's Essentials of Business Law. 12mo. Cloth, \$1.10.

Ready Soon

Other Books for Business Education

Cleveland's Funds and Their Uses

Ford's Commerce and Industries

Taylor's Money and Banking

**D. APPLETON & COMPANY**

New York Boston Chicago London

**Everyday English**  
**BOOK I.**

**Language Lessons for Fourth, Fifth and Sixth School Years**

By **JEAN SHERWOOD RANKIN**

With a Foreword by **RICHARD BURTON**, *Professor of the English Language and Literature in the University of Minnesota.*

240 Pages. 12mo. Cloth. Price, 50 Cents.

*This book has been written expressly to meet the demand everywhere heard for a rational and synthetic system of language study. It inaugurates a new era in the teaching of English in graded schools, eliminating the ineffective methods that have heretofore made language the least satisfactory of all subjects taught. Practical and progressive original and entertaining, for the first time a public school text-book treats language as a living growth.*

**What is Said of It**

Mrs. Rankin made a most practical and intelligent effort to provide pupils of intermediate school grades with a system of instruction in our noble English tongue, which will impress them with its power of expression, its adaptability to varying conditions of intellectual receptivity and instil in their minds a desire to acquaint themselves with its splendid literature. The author is not a stickler for technical grammar study. There is no doubt that much time is wasted in teaching technicalities of English grammar, when the young can be taught all necessary rules in reading exercises as is done in the German schools, in the vernacular as well as in Greek, Latin and other languages. . . . She acquaints them with epistolary models embodying the purest English and the most finished diction, points out what she considers the misuse and the proper use of words and figures of speech, and lays down rules for capitalization and punctuation. Her aim is to impress upon the young the importance of good speech, which should be used outside the schoolhouse as well as in it and under the ears of the teacher. Professor Burton says in his preface that "to make good speech a sort of social obligation will impress a child infinitely more than all the abstractions known as rules of grammar."—*Minneapolis Journal*.

Correspondence solicited with school principals and special teachers.

Address **EDUCATIONAL PUBLISHING COMPANY,**

63 Fifth Avenue  
 NEW YORK

228 Wabash Avenue  
 CHICAGO

50 Broomfield Street  
 BOSTON

809 Market Street  
 SAN FRANCISCO



# School Board Journal

VOL. XXV, No. 4.

NEW YORK—CHICAGO, OCTOBER, 1902.

SUBSCRIPTION PRICE  
\$1 PER YEAR.



A PROSPECTIVE SCHOOL ROOM SCENE.

The coal strike has left thousands of Boards of Education in the Northern states without fuel for the coming winter season.



#### School Elections.

A law provides that the common council of each city and the board of trustees of each incorporated town shall at their first regular meeting in the month of June elect three school trustees, and annually thereafter shall elect one school trustee, does not apply in terms to cities thereafter created, for "the month of June" means the June immediately following the enactment of the statute; nor can it apply from the necessity of the case, as the terms of office of the trustees of the school town corporation can extend into the period after the city has been created. *State v. Ogan, Ind.*

#### School House Plans.

Where contracts by school district officers for the purchase of materials for the district, and for additions to school buildings, without first being authorized by the electors, and without obtaining the county superintendent's approval of the plans adopted, as required by law, have been fully performed by both parties, though some of such contracts were made with the relatives of the officers, and where the officers have paid from the district fund the expenses incurred by a lawsuit resulting from their expelling a pupil, a taxpayer of the district, and in its behalf, cannot maintain a suit for the recovery of the moneys so expended; there being no claim that the officers acted corruptly or fraudulently, or paid more than a reasonable amount. *Kagy v. Independent Dist. of West Des Moines, Ia.*

#### Expulsion of Pupils.

A law authorizing a recovery of damages against a city for the unlawful expulsion of a pupil from its schools, does not authorize the recovery of damages for the expulsion of a pupil by the school committee after a hearing, though the committee refuses to require other pupils to testify to the difficulty with the teacher for which the pupil is expelled; such refusal not showing bad faith on the part of the committee. *Morrison v. City of Lawrence, Mass.*

Where the evidence in an action authorized by the law, by a pupil against a city for his unlawful expulsion from its schools, shows that the pupil did not attend another school during the school year, but afterwards attended a private school, but fails to show that he paid board or tuition, or had an estate of his own, or was without a father, it is error to refuse to instruct that he cannot recover the cost of board and tuition as an element of damages. *Morrison v. City of Lawrence, Mass.*

#### School Supplies.

A board of education organized under the law, in seeking proposals for a contract to supply school furniture, may delegate to a committee the duty of preparing and submitting specifications, and of conducting negotiations for the contract, provided the result of the negotiations is considered by the board before the award of the contract. *Kraft v. Board of Education of Weehawken, N. J.*

Where an advertisement for bids by the board of education, which the board is not required by law to advertise for, reserves the right to reject all proposals, and contains a clause that none but union labor shall be employed, a contract entered into not in accordance with the advertisement, and not containing that clause, is not invalid. *Coward v. City of Bayonne, N. J.*

#### School Taxes.

The act of an annual school district meeting, held on the first Tuesday in April, as required

by the law, in fixing the rate of the school tax in excess of 40 cents on each \$100 valuation, as authorized by the law, is not invalid because the school board has not submitted a proposed rate to the meeting, as the meeting is not limited to merely passing on a proposition so submitted; a law requiring the board to submit an estimate, which the meeting may accept or reject, being expressly limited to special meetings called by reason of the insufficiency of the rate fixed at the annual meeting, and to increase the sum. *Benton v. Scott, Mo.*

#### School Funds.

A law prohibits school districts from becoming indebted in any one year exceeding the revenue of the year, except by vote of two-thirds of the electors voting at an election held for such purpose, and provides that on incurring an indebtedness so authorized, provision shall be made for the collection of an annual tax for interest and a sinking fund. A law authorizes the school board to borrow money and issue bonds after an election held for such purpose, two-thirds of the votes being in favor thereof. The law provides that the rates of interest on such loans shall be fixed by the directors, and that they shall provide for the collection of an annual tax for the payment of interest and for a sinking fund. The laws authorize the school board in such case to levy an interest and sinking fund tax. Held, that the school board of a town which had voted for such a loan could levy an annual tax for interest and sinking fund without the consent of the school meeting, notwithstanding the law authorizing the increase of the school tax rate to erect school buildings, but requiring a two-thirds vote of the electors as a condition precedent, as the latter section only applies to the levying of taxes to erect buildings with the proceeds, and not to a loan for such purpose. *Benton v. Scott, Mo.*

#### School Bonds.

A law provides that the board of directors of any school district may borrow money and issue negotiable bonds therefor, when authorized by vote of the district so to do, and declares that the bonds so issued shall bear a rate of interest not to exceed 10 per cent. The law prescribes that notices of the election to determine whether the bonds shall be issued shall state "amount of bonds proposed to be issued, time they are to run, and purpose for which the money is to be used." Held, that a notice of election, though stating that the bonds would draw interest at the rate of 4 per cent., was not void. *Parkinson v. Seattle School Dist. No. 1, in King County, Washington.*

A law provides that the notice of sale of school district bonds "must give the amount of bonds to be sold, the time to run, where payable, the option, if any, of the school district to redeem; also naming the hour and day for considering bids and asking bidders to name price and rates of interest at which they will purchase such bonds." Held, that a notice to bidders, which itself named the rate of interest which the bonds were to draw, was not void, though it did not ask the bidders to name the rate at which they would accept the bonds. *Parkinson v. Seattle School Dist. No. 1, in King County, Washington.*

#### Breach of Contract.

Where a board of education contracts for improvements for a school building, it cannot escape liability for breach of its contract in refusing to allow the contractor to proceed with the work by claiming that public funds could not be used to pay damages. *Morgan v. Board of Education of City and County of San Francisco, Cal.*

In an action against a school board for breach of contract in refusing to allow the contractor to proceed with the work, that a second contract



N. H. CHANEY, Ph. D.,  
Supt. Public Schools, Youngstown, Ohio.

which the board made with a third party for the work was ultra vires is of no consequence. *Morgan v. Board of Education of City and County of San Francisco, Cal.*

School directors have the power to suspend a teacher because she refused to comply with a regulation of the board requiring teachers to be vaccinated. *Lyndall v. High School Committee, Pennsylvania.*

In the absence of a lawful regulation, a board of education has no authority, where the disease of smallpox does not exist within the city, to deny a child of school age admission to the public schools because it has not been vaccinated. *Osborn v. Russell, Kan.*

A law provides that the state board of health shall supervise the health interests of the people of the state, and shall adopt such rules as may be necessary. Held, to give it no power to provide that no person shall be admitted into public or private schools until successfully vaccinated. *Osborn v. Russell, Kan.*

Minneapolis, Minn.—The Board has declared that all men employed by it should be and are entirely free to join the unions of their respective trades as they think best.

Newport, R. I.—A colored woman has been elected as teacher. She is the first negress to be so honored in the New England states.

Austin, Tex.—The schools are named after men prominent in educational affairs.

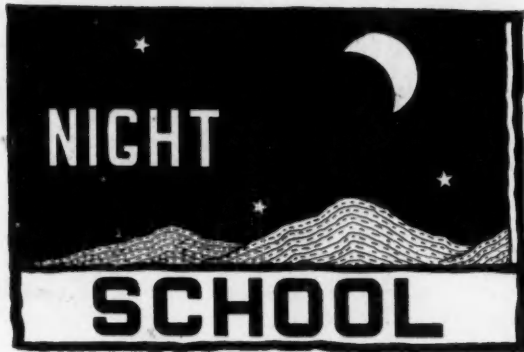
Omaha, Neb.—At the last meeting J. J. Smith introduced the following resolution: Resolved, That hereafter no person who smokes tobacco shall be elected by the board as teacher in the schools, or as an officer of this board, and that any member of this board who smokes tobacco be requested to resign from this board.



First Lazy Citizen: "Can you tell where the school board is running to in the erection of that new school?"

Second Lazy Citizen: "Most likely running into debt."





In the American educational system the evening school is a potent factor. Its influence is far-reaching. It is recruited from the middle and lower classes of to-day, which are bound to be the higher and middle classes of to-morrow. It is a great, underlying force in American life and it frequently brings forth men and women of distinction in affairs. Earnestness and application are the characteristics of a majority of the pupils attending evening schools. Their one aim is to obtain an education. Close observation has shown that after a month the idlers and the curious among the students drop out and only those remain who mean business.

The work accomplished in evening schools has passed the experimental stage. Thousands of dollars are spent, annually, for the maintenance and extension of these schools, and the money is wisely spent. The evening school is the poor man's college; to one lacking educational opportunities in youth, it is an undisguised blessing. Evening schools should be maintained in every community.

The Massachusetts legislature at its last session enacted a law which provides that all persons between the ages of 14 and 21 employed in mills or factories must either attend night school or have a certificate from the superintendent of schools stating that they can read and write the English language.

Boston, Mass. All classes of men and women, youths and maidens, of a dozen nationalities, are represented at the night schools. The country boy coming to the city continues in the evening school the education begun in his native village; the clerk who intends to advance to a higher position in his business takes up book-keeping and stenography, typewriting and language; the maid-of-all-work perfects herself by learning to write a "fine hand," it being often an ambition of members of her class to be a "pretty writer," and the stevedore and the blacksmith blunderingly and earnestly attempt a larger knowledge of the three R's.

Schenectady, N. Y., Last season, after a course of twelve weeks, the night school completed its course. The venture proved a prosperous one, for in every respect it had exceeded the bounds of even the most sanguine.

The oldest person registered was a man of 43 years of age, who first brought his two sons to the school, and then decided to stay and take a course in arithmetic. The ages mainly ran from 14 to 18. Among the foreigners represented were Japanese, Chinese, Poles, Spaniards, Italians, Irish, Germans and Frenchmen.

At the close of the term certificates were awarded to those who had completed in a satisfactory manner a particular branch of study. The certificate states that the holder "was a pupil in the night school of 1901-1902, and that he was faithful in attendance, earnest in effort and made commendable progress in ———." The number of certificates awarded was nearly 300.

Central Falls, R. I. Last season's public evening schools were brought to a most successful close. The closing was marked by music, addresses and a debate on the right of the United States to hold the Philippines. The work accomplished in these schools justified their exist-

ence and the expense incident to their conduct. Sound instruction along sensible lines characterized their work.

Providence, R. I. Freehand and mechanical drawing, book-keeping and penmanship are the principal studies taught in the night schools.

Louisville, Ky. Night schools have been in operation nineteen years. Students who found in them the opportunity for an education have reached the round number of fully 7,000. Among the list of graduates are ministers, physicians, lawyers and business men.

Springfield, Mass. At the annual evening school graduation last season, five young women and seven men received diplomas for the completion of a three years' course.

The course of the evening schools this winter is to be broadened.

Lawrence, Mass. The importance of evening schools in this city is duly recognized. An efficient corps of teachers is annually appointed in order that the work can be maintained at a high standard. The facilities offered to those desiring to broaden their knowledge are readily appreciated.

Somerville, Mass. Last year the average attendance upon the night schools was larger, and the spirit, tone and character of the schools considerably better than ever before. Drawing proved the attractive feature of the schools.

New Bedford, Mass. The average cost per pupil in attendance upon the night school last year was \$5.38.

Johnstown, Pa. The night schools, a year ago, opened early in December. In less than two months the attendance dwindled down to less than one-third their size when the session began.

Worcester, Mass. At the close of the work done in the evening schools, last season, an exhibition of the work done was shown at the city hall, attracting considerable attention. There were many words of praise for the teachers, and exclamations of surprise at some of the work exhibited.

Dallas, Tex. In this city, and practically all Southern manufacturing towns, there are no restrictions by law against the employment of child labor. The board therefore has regarded

the establishment of a night school as a good, long step in the prevention of evils which might arise from the possible neglect of the educational facilities afforded by the day schools of the city. Only experienced teachers are employed in the night schools.

Hackensack, N. J. It has been decided to open a night school. A special committee has been appointed to visit the night schools in Paterson as soon as they open, to get a more definite idea of the plan of operation.

Schenectady, N. Y. The board is considering broadening the course of study in the night schools, especially emphasizing the training in mechanical drawing.

Chicago, Ill. During the winter 1900-01 thirty-one night schools were maintained at an expense of \$58,405, and were attended by 9,104 pupils, of whom over 7,000 were men and full-grown boys, who were so eager to learn that after a hard day's work they ate a hurried supper and went to the nearest school to receive the instruction provided. About 3,500 of these pupils were boys under 20 years of age, whose education in the public schools had been arrested by the necessity of their earning a livelihood.

The surprising feature of this attendance was the preponderance of Americans. Of the men 3,369 were Americans, 612 Germans, 524 Scandinavians, 561 Bohemians and 1,960 of other nationalities. Of the women 954 were Americans, 248 were Germans, 161 Scandinavians, 145 Bohemians and 501 other nationalities.

Deficiency in school funds is assigned as the cause for closing the night schools last winter. An earnest effort is to be made to have them reopened again this year, as the need for these schools has been amply demonstrated.

The evening high school has given great satisfaction in Boston, Worcester, Newark and other cities where it has been established.

Rochester, N. Y. This winter an evening high school is to be established. In a general way, it is the idea to give the pupils all the advantages in this school of which they will avail themselves. Whenever a certain number of pupils, sufficiently advanced, signify a desire to pursue a particular study, the same will be taught.



Geo. N. Gerlach Supt. A. J. Smith Ass't Supt. J. D. Bond  
Wm. H. Egan Octave Savard O. E. Holman Christian Frye Charles Fischer N. P. Rogers  
Secretary James P. Healy

BOARD OF EDUCATION, ST. PAUL, MINN.

## For Busy Superintendents.

### Election of State Superintendents.

The general elections this fall include the choice of a state superintendent of public instruction in many states. The ones where an election of superintendent will be held, and the names of the candidates, are as follows:

Alabama—Democratic: L. W. Hill, Gadsden. Election certain.

Arkansas—Democratic: Jno. H. Hinemon, Pine Bluff. Republican: R. L. Floyd, El Dorado.

California—Republican: Thomas J. Kirke; Sacramento, present incumbent. Election certain, as Democratic nominee declined to enter the contest.

Colorado—Democratic: Mrs. H. L. Grenfell, Denver, present incumbent. Republican: Mrs. Anna B. Brandt, Cripple Creek.

Georgia—Democratic: W. B. Merritt, Valdosta. Election certain.

Idaho—Democratic: Miss Permeal French, Boise, present incumbent. Republican: Miss Mae Scott, Blackfoot.

Illinois—Republican: Alfred Bayliss, Springfield, present incumbent. Democratic: A. L. Bliss, Lexington.

Indiana—Republican: F. A. Cotton, Indianapolis. Democratic: S. L. Scott, Jeffersonville.

Kansas—Republican: I. L. Dayhoff, Hutchinson. Fusion: F. M. Powell, Nickerson.

Michigan—Republican: Delos Fall, Lansing, present incumbent. Democratic: W. N. Ferris, Big Rapids.

Missouri—Democratic: W. T. Carrington, Jefferson City, present incumbent. Republican: J. U. White, Brookfield.

Nebraska—Republican: W. K. Fowler, Lincoln, present incumbent. Fusion: Claude Smith, Lexington.

Nevada—Republican: Orvis Ring, Carson City, present incumbent. Fusion: John Edwards Bray, Reno.

North Dakota—Democratic: V. Stefanson, Grand Forks. Republican: W. L. Stockwell, Grafton.

South Carolina—Democratic: O. B. Martin, Greenville. Election certain.

South Dakota—Republican: Geo. W. Nash, Canton. Fusion: Miss Nina P. Small, Gettysburg.

Texas—Democratic: Arthur Lefevre, Austin, present incumbent. Re-election certain.

Wisconsin—Republican: Charles P. Carey, Delavan. Democratic: Karl Mathie, Wausau.

Wyoming—Republican: Thomas T. Tynan, Cheyenne, present incumbent. Democratic: Mrs. Anna De Larie, Laramie.

In the State of Oregon, J. H. Ackerman was re-elected last June for a term of four years, beginning January 1, 1903.

The following elective state superintendents hold over: Florida—W. N. Sheats; Iowa—R. C. Barrett; Kentucky—H. V. McChesney; Louisiana—J. V. Calhoun; Montana—W. W. Welch; North Carolina—J. Y. Joyner; Ohio—Lewis D. Bonebrake; Utah—A. C. Nelson; Washington—R. B. Bryan; West Virginia, Thomas C. Miller.

In the following states the state superintendent is appointed by the State Board of Education: Maryland: Martin Bates Stephens; Massachusetts: Frank A. Hill; Mississippi: Henry L. Whitfield; Rhode Island: Thomas B. Stockwell.

Elected by the Legislature: New York: Chas. R. Skinner; Vermont: Walter E. Ronger; Virginia: Jos. W. Southall.

Appointed by the Governor: Arizona—R. L. Long, Maine; W. W. Stetson. Minnesota—J. W. Olsen. New Jersey—Chas. J. Baxter. New Hampshire—Channing Folsom. New Mexico—J. Franco Chavez. Pennsylvania—Nathan C. Schaeffer. Tennessee—M. C. Fitzpatrick. Indian Territory—H. W. C. Shelton. Oklahoma Territory—L. W. Baxter.

Delaware has no state superintendent of public instruction.

The following state superintendents have not been renominated and will retire: Alabama—H. C. Gunnels. Arkansas—J. J. Doyme. Georgia—G. R. Glenn. Indiana—Frank L. Jones. Kansas—Frank Nelson. North Dakota—J. M. Devine. South Carolina—John J. McMahan. South Dakota—E. E. Collins. Wisconsin—L. D. Harvey.

The United States Commissioner of Education and the Superintendent for Alaska are appointed by the President. Wm. T. Harris is the present incumbent of the former office—Prof. Sheldon Jackson of the latter.

Prof. I. W. Hill, Democratic candidate for state superintendent in Alabama, has been superintendent of the Gadsden public schools for a number of years, and is a young man of tact and energy. He is the candidate of the teachers of the state. At the recent primary election his large plurality over his competitors was due to the influence of the teachers. Under the new constitution his term of office, if elected, will be four years.

Mrs. Helen L. Grenfell, Colorado's exceedingly efficient superintendent of public instruction, has been renominated by the Democratic party. She has the unanimous support of the best educators of the state, independent of any idea of party politics. The duties of the office have never been more creditably and capably administered than during her incumbency. Her re-election is assured.



ISAAC WM. HILL,  
Gadsden, Alabama.  
Democratic.

### The New York Meeting.

The New York State Association of School Boards will meet at Albany, October 15th and 16th.

On the evening of the 15th there will be a joint meeting with the superintendents and it is expected that President Elliott, of Harvard, will deliver an address.

On the 16th, morning session, a paper will be presented by George McCann, of Elmira, subject not yet announced; one by Prof. W. P. Burris, of Albany, on "The Work of the Training School," and discussions on appropriate subjects.

In the afternoon, a paper will be presented by Dr. H. Ernest Schmid, of White Plains, on "Some Needed Improvements in School Boards"; also one by Prof. Charles F. Wheelock, of the University of the State of New York, on "The Nervous Strain in School Children," and discussions on appropriate topics.

In the evening there will be a joint session with the superintendents, also on Friday morning after the election of officers.

The subject of school administration, which receives special attention at the University of Indiana, is in charge of Prof. W. A. Hester. It covers an Observation and Apprentice Course in Superintendency, Lectures, Reports and Conferences. This course deals with the proper construction, heating, lighting, ventilation, sanitation, decoration and equipment of school buildings; the grounds surrounding said buildings; methods of instruction; school management—including graduation, examination, promotion, and discipline of pupils; courses of study; libraries; museums; prizes and other incentives; the relations existing between school officials, supervisors, teachers, pupils and parents.



J. H. HINEMON,  
Pine Bluff, Arkansas.  
Democratic.



KARL MATHIE,  
Wausau, Wisconsin.  
Democratic.



CHARLES P. CAREY,  
Delavan, Wisconsin.  
Republican.

CANDIDATES FOR STATE SUPERINTENDENT OF PUBLIC INSTRUCTION.

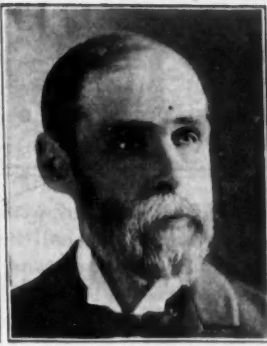




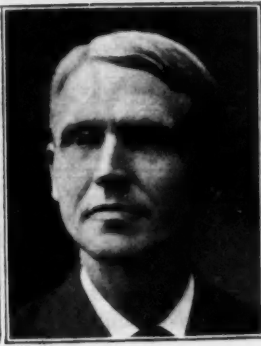
V. STEFANSON,  
Grand Forks, N. Dakota.  
Democratic.



W. L. STOCKWELL,  
Grafton, N. Dakota.  
Republican.



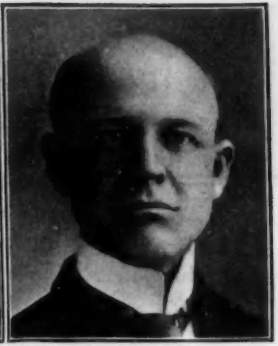
DELOS FALL,\*  
Lansing, Michigan.  
Republican.



W. N. FERRIS,  
Big Rapids, Michigan.  
Democratic.



FASSETT A. COTTON,  
Indianapolis, Indiana.  
Republican.



SAMUEL L. SCOTT,  
Jeffersonville, Indiana.  
Democratic.



MRS. H. L. GRENFELL,\*  
Denver, Colorado.  
Democratic.



ARTHUR LEFEVRE,\*  
Austin, Texas.  
Democratic.



J. U. WHITE,  
Brookfield, Missouri.  
Republican.



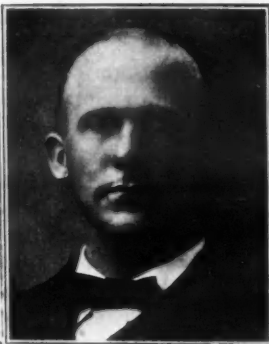
I. L. DAYHOFF,  
Hutchinson, Kansas.  
Republican.



MRS. PERM'L FRENCH,\*  
Boise, Idaho.  
Democratic.



R. L. FLOYD,  
El Dorado, Arkansas.  
Republican.



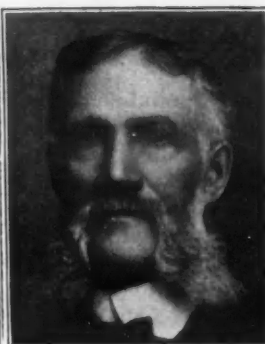
O. B. MARTIN,  
Greenville, S. Carolina.  
Democratic.



MISS NINA SMALL,  
Gettysburg, S. Dakota.  
Democratic.



GEO. W. NASH,  
Canton, S. Dakota.  
Republican.



ORVIS RING,\*  
Carson City, Nevada.  
Republican.



W. T. CARRINGTON,\*  
Jefferson City, Missouri.  
Democratic.



THOS. J. KIRKE,\*  
Sacramento, California.  
Republican.



ANSON L. BLISS,  
Lexington, Illinois.  
Democratic.



ALFRED BAYLISS,\*  
Springfield, Illinois.  
Republican.



CLAUDE SMITH,  
Lexington, Nebraska.  
Fusion.



W. K. FOWLER,\*  
Lincoln, Nebraska.  
Republican.

Candidates for State Superintendent of Public Instruction.  
ELECTION, NOVEMBER 4th, 1902. — \*Present Incumbant.

# Teachers' Salaries.

Lincoln, Neb., Adopts a Scale.

The Board of Education at Lincoln, Neb., has given the subject of selecting and compensating teachers considerable attention.

The following regulations governing the certification and employment of teachers, as adopted by the Lincoln board, is of considerable value and exceptional interest:

## Certificates.

1. **EXAMINING COMMITTEE.**—The certification of teachers shall be under the direction of the examining committee, consisting of the superintendent of schools, who shall be chairman of this committee, the principal of the high school and the chairman of the teachers' committee, or their authorized representative.

2. **REGULAR CERTIFICATES.**—Certificates of four grades shall be issued to regular teachers to be designated as certificates of the first, second, third and fourth grades respectively. The first grade certificate shall be valid until revoked by the board on the recommendation of the committee on teachers, and shall qualify the holder to fill any position in the school. The second and third grade certificates shall be valid for five years and are not renewable. The fourth grade is a provisional certificate and is valid for one year only, but may be extended to four years, but not longer, on the recommendation of the committee on teachers. The second, third and fourth grade certificates shall qualify the holders for regular appointment to any grade position and for temporary appointment in the high school. All teachers in the schools shall be required to hold one of the above certificates. Kindergarten teachers shall in addition hold a special kindergarten certificate.

3. **SPECIAL CERTIFICATES.**—Special supervisors, kindergarten and cadet certificates shall be issued to teachers and assistants in special departments as follows:

a. *Supervisors certificates* valid until revoked by the board to teachers of special subjects, including music, drawing, writing, etc.

b. *Kindergarten certificates* valid until revoked by the board to holders of fourth grade or higher certificates who have completed not less than a year of resident study and training in an approved kindergarten training school.

c. *Cadet certificates* valid for three years, to those who meet all requirements for a fourth grade certificate except that of experience; provided, however, that for kindergarten work assistants and cadets shall be required to pass an examination in music. No inexperienced teacher shall be allowed to serve in any capacity in the schools without a cadet certificate.

4. No regular certificate shall be issued to any one who has not been elected to a position in the Lincoln public schools, and such election shall be dependent on the candidate's ability to obtain a certificate of the fourth grade. On severing connection with the Lincoln city schools a teacher's certificate thereby becomes invalid; provided, however, that a leave of absence shall not be construed as invalidating a certificate under this rule. Teachers re-elected to a position after an interval of absence (not on leave) may have their former grade of certificate restored by special vote of the board, provided they present evidence of professional growth and study equivalent to not less than five hours of university work.\*

\*One hour's work means one recitation per week for 18 weeks.

5. A record of all certificates granted with the standings on which they are based shall be kept in the superintendent's office, and the standing of all teachers shall be certified to the board by the examining committee before the beginning of school each year.

6. A fee of fifty cents (\$0.50) shall be required of all teachers on receiving their first certificate, and twenty-five cents (\$0.25) for each certificate thereafter. Applicants for certificates shall submit their diplomas or certificates, showing the character and amount of work done, and deposit the usual fee before the certificate is granted.

## 7. REQUIREMENTS FOR REGULAR CERTIFICATES.

a. *Fourth Grade Certificates.*—To receive a fourth grade certificate it shall be necessary:

(1) That the applicant be not under 19 years of age.

(2) That he present evidence of having satisfactorily completed the equivalent of a full four year high school course.

(3) That he pass an examination calculated to test his knowledge of educational principles and methods and acquaintance with the latest trend in educational thought and activity. Examination in drawing and music shall be at the discretion of the committee.

(4) That he shall have had not less than three years' experience in other schools having not more than two grades under one teacher, or as assistant in the Lincoln schools, and four years in ungraded schools. An allowance of one year will be made in each case to graduates from full college courses.

b. *Third Grade Certificate.*—To obtain a third grade certificate it shall be necessary that the applicant shall have served not less than one year as a regular teacher in the Lincoln schools, and in addition

(1) Shall present evidence of having completed the equivalent of not less than thirty hours university work, or

(2) Shall have completed the higher course in the Nebraska State Normal School or its equivalent in other schools of like rank, or

(3) Shall hold a state life diploma.

c. *Second Grade Certificate.*—To obtain a certificate of the second grade, it shall be necessary that the candidate shall have served not less than two years as a regular teacher in the Lincoln schools, and in addition shall present evidence of having completed the equivalent of not less than seventy-five hours of university work.

d. *First Grade Certificate.*—To receive a first grade certificate it shall be necessary that the applicant shall have completed the equivalent of a full university or college course and shall have served not less than one year as a regular teacher in the Lincoln schools.

8. Teachers in the employ of the board of education June 1, 1902, shall receive in exchange for the certificate now held by them, a new certificate of like grade dating from the above date; except that teachers not graduates from a college or university holding first grade certificates shall receive therefor a second grade certificate which shall be made permanent.

9. No teacher doing full work in the school shall be allowed to enroll in the university for more than five hours per week during the school year, except by special vote of the board. Whenever it shall appear that a teacher's daily work is suffering by reason of university studies the

committee on teachers may require that these be dropped.

10. Teachers appointed to any position in the Lincoln schools for the first time shall on appointment receive a fourth grade certificate only. After one year of service they shall be entitled to any higher grade which they are qualified to hold.

## Salary Schedule.

11. The salaries of the superintendent, the principal of the high school and supervisors of special subjects or masters of special schools shall be fixed by special action of the board.

12. Principals. The maximum salary of principals shall be fixed according to the grade of schools as follows:

a. Primary schools.....	\$70.00	\$80.00
b. Intermediate .....	70.00	85.00
c. Grammar .....	75.00	90.00

NOTE: Schools are classified as follows:

a. Primary. Having regularly no grades above the fourth: Hayward, Longfellow, Randolph, Saratoga.

b. Intermediate. Having less than eight rooms containing regularly both primary and grammar grades.

c. Grammar. Fully graded schools having eight or more rooms: Bancroft, Bryan, Capitol, Central, Clinton, Elliott, Everett, Park, Prescott, Whittier.

## 13. Teachers and assistants.

	Minimum.	Maximum.
a. Regular teachers....	\$40.00	\$70.00
b. Assistants (grade)		
(See rule 8)		
Class I.....	30.00	35.00
Class II.....	25.00	30.00
Class III.....	25.00	35.00

14. When first elected to a position in the Lincoln schools, the salaries of teachers having experience equivalent to more than the minimum required (Rule 7), shall be fixed by the board on the recommendation of the committee on teachers, but in no case shall it be less than the minimum of \$40.00 per month. Thereafter advance in salary shall take place in accordance with the provisions of Rule 15.

## 15. ADVANCE IN SALARY.

### a. Regular Increase.

(1) Principals, teachers and assistants receiving less than the maximum within their class shall receive four dollars increase per month for each additional year of service until the maximum is reached.

(2) Principals, teachers and assistants holding first, second or third grade certificates who during the preceding year complete professional studies equivalent to three hours of university work shall receive an increase of six dollars per

(Concluded on subsequent pages)



LEWIS N. CRANE,  
Supt. of Schools, Rome, N. Y.



# School Garden, Dedham, Mass.

BY HON. FRANK SMITH.

In grading and developing the four-acre lot, on which the new Oakdale school house is being erected, the Town of Dedham, through its committee, is establishing one of the most perfect and complete school gardens, in connection with a public school, to be found in America.

It is fitting that Dedham should be one of the pioneers and leaders in this work of extending and perfecting our school system, for here was set up in 1644 the first free school in America, supported wholly by taxation, and the school thus established (Ames School) has been continued to the present day.

The design and arrangement of the Oakdale grounds has been worked out most satisfactorily by Frederic H. Kennard, a landscape architect, who is interested in this branch of industrial training which make for a broader life and a better citizenship. Thinking persons are coming to see that out of our vast investment in school houses and grounds there should be made to come all possible returns. As Superintendent Gilbert, of Rochester, writes: "The school garden cared for by the children is useful in economic training; it stimulates an interest in many things which would ordinarily pass unnoticed by the children; it makes the best sort of nature study possible, inasmuch as children can observe growth with its processes and varying conditions; it can be made in part the basis of the best kind of work in many subjects."

School gardens which perform some educational function, in connection with school training, are being established in connection with some of our best schools, namely: The George Putnam School of Roxbury, of which much has been written by the principal, Henry L. Clapp; Medford, Mass., three schools; St. Louis, Rochester, N. Y., Trenton and Princeton, N. J., Cleveland and Dayton, Ohio, Omaha, the Framingham and Hyannis, Mass., Normal schools, and Willimantic, Conn., Normal school. Surely

"there is nothing new under the sun," for one who makes a study of the subjects, finds that even King Solomon "possessed extensive gardens in which were all kinds of plants from the cedar tree that is in Lebanon even unto the hyssop that springeth out of the wall."

The renowned educator, Comenius, maintained that a garden should be connected with every school where children at times can leisurely gaze on trees, flowers and herbs, and be taught to enjoy them.

Pestalozzi, who was himself something of a farmer, said: "I wish to make my estate the central point of my agricultural and educational efforts."

Froebel, the founder of kindergartens, recommended light gardening for the large children in connection with the play of the younger ones.

School gardens were established in connection with schools in the larger cities of Germany in 1840, and are now found in all the progressive countries of Europe. In Austria the imperial school law of 1869 prescribes that "where practicable a garden and a place for agricultural experiments shall be established at every rural school." These gardens average about one-quarter of an acre.

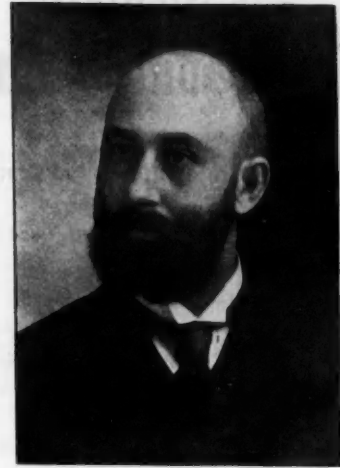
The idea is most fully exemplified in Styria, where there is no school without a garden. The school garden has been established feature in Switzerland for more than twenty years.

France, in 1882, outlined a course of study for primary schools in which the first introduction to horticulture and agriculture is made in the school garden. In Belgium the school law of 1873 requires that each school shall have a garden of at least 39½ square rods.

In Sweden a royal circular in 1869 required gardens averaging from 70 to 150 square rods to be appropriately laid out.

The idea took root some twenty years ago in Germany. Although not required by law, there are many school gardens, and all rural districts require a tree section. The subject is now receiving marked attention even in Russia.

The Dedham garden is placed in connection

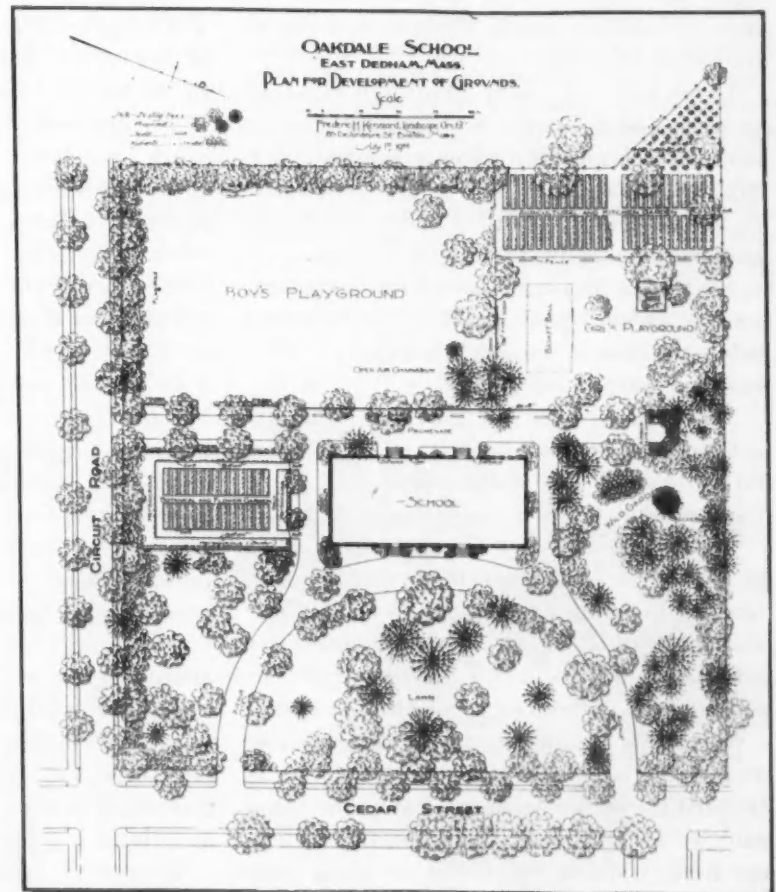
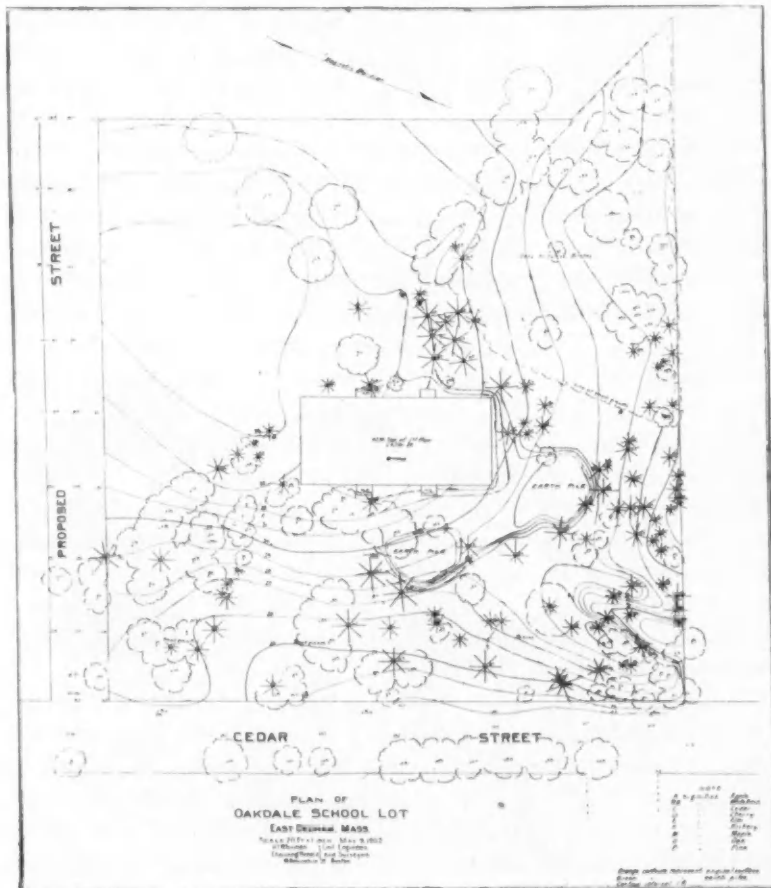


HON. FRANK SMITH,  
Dedham, Mass.

with the school house, where it will be of the greatest educational value. It is complete in itself, as the accompanying plan shows, having a tree section, a vegetable garden with beds to be cared for by pupils, a botanical division, an agriculture experiment field, a flower garden with ornamental plants and a wild flower garden and rockery. This garden has been established for the purpose of instruction and education and will help to carry out the maxim, "No instruction without observation." With the school garden nature study becomes practical and many lessons can be given out of doors.

The grounds will be adorned with the native trees and shrubs of New England, while the fence enclosing the lot will support a variety of vines.

In developing the grounds, whenever it has been a question whether a tree already grown should be removed or allowed to remain, the architect has decided to let it stand until its effect on the grounds and the light of the school rooms can be decided by actual test. Later some trees which now appear on the plan will be removed if it seems best.



SCHOOL GARDEN PLAN AT DEDHAM, MASS.

# THE AMERICAN School Board Journal

DEVOTED TO

School Boards, School Officials and Teachers.

WM. GEO. BRUCE, Editor and Publisher.

New York—Chicago—Milwaukee.

W. J. LAKE, Eastern Manager.

NEW YORK OFFICE: 3 East 14th St.

CHICAGO OFFICE: 195 Wabash Ave.

ISSUED MONTHLY. SUBSCRIPTION, \$1.00 A YEAR.

## SUPERINTENDENTS GO TO CINCINNATI.

Superintendent Warren Easton came to Chicago and invited the Department of Superintendents to meet at New Orleans next February. The invitation was accepted and the announcement made that New Orleans had been selected for the meeting.

The hotel men of New Orleans, however, announced that the Southern city would not be able to accommodate the school men during the month of February, owing to the large crowds brought there during the Mardi Gras festivities.

The officers of the Department of Superintendence were placed in a predicament since other equally pressing invitations had been turned down.

A solution has, however, been found. Cincinnati has been chosen and the dates fixed for February 24-27 next.

## PUBLIC NIGHT SCHOOLS.

It may sound strange to maintain at this time that night schools, as a rule, have not been a success. Actual experience, however, proves the statement to be true.

Large sums of money have been expended by city school boards in providing evening schools for young men who are employed during the day and who still require instruction in the elementary branches. But the results have not, generally, proven satisfactory.

Night schools usually open with fairly large classes, but they gradually dwindle down long before the close of the season assigned for them has been reached.

Many boards have felt that the outlay has not been warranted by the attendance, or rather that the per capita cost of instructing night scholars has been exceptionally high.

The remedy, if indeed a remedy exists, must be found in employing only the strongest teachers to conduct the night schools. While there are various causes to account for the lax attendance, the one which is laid to the door of the school authorities should be eliminated.

The young man who is tired in the evening as a result of a hard day's work, or who is tempted to look for pleasures during the hours assigned for rest, is apt to become an indifferent student, unless his studies are made most attractive.

The employment for night school classes of

young women, who teach small children during the day is, in our judgment, a mistake. They are apt to employ the same methods for young men, designed for only delicate child minds.

The youth and adult of a night school must be reached by the most practical and direct methods. These must not be too elementary and must be applied with a fine discrimination between the useful and the worthless and a proper appreciation for the needs of the scholar.

The interest of the student must be aroused and his mind kept in a state of pleasant expectation from session to session.

## PORTABLE SCHOOL HOUSES.

The problem of the overcrowded condition of the schools in a number of cities is being solved in a novel and highly satisfactory manner. Portable school houses, costing about \$1,350 each, and admirably equipped in all appointments necessary to the health and comfort of the scholars are proving the solution.

To build elaborate or substantial school buildings usually requires the issue of bonds and increased taxation, and this often is looked upon as a burden by the citizens. The portable school house, therefore, is a means to tide over trying conditions temporarily.

The portable school house is truly an innovation in that it can be taken apart, carried on a dray to another part of the city, and put together again, all within three or four days' time. The several parts are numbered and fastened by screws, thus allowing of this quick shift from one site to another.

The portable school houses are green in color. They stand 15 feet high, and the area of ground covered by most of them is 26x34 feet. The height of the interior is 12 feet, which is as high as the ordinary school room. The sides of the building are in six pieces each, the ends in five, the roof in 24 and the floor in 12. Beneath the outer sections of the buildings there is another well-matched wall and the sides of this next the school room forms the blackboard around the room. The foundation is of posts driven in the ground. The building is made fire-proof by a preparation of sea-grass within the walls and floor.

In size the portable school house is not unlike the old district school house except, perhaps, for height of ceiling, but in its equipment it is radically modern, even though a stove is used for heating. The pipe from the stove passes through the center of a ventilator in the ceiling. The air in the ventilator is kept warm by the pipe and is constantly rising, thus insuring the best of ventilation. Especial attention is also paid to adequate lighting, though the windows are not found on all four sides of the building. The site these buildings must occupy is, in many instances, such that good light can be obtained from one or two directions.

These little green buildings usually occupy a convenient portion of the school grounds of the permanent buildings. In one term the

overcrowded condition may be found in one part of the city, and the next year in another section, the portable school building being moved to suit the existing need. Sometimes as many as three portable school houses may be found on the same school ground. Where the overcrowded condition is noticeable year after year in a certain locality it will signify the permanent need of increased room, and arrangements should then be made to fill the want with a substantial building or suitable addition to the main building.

## FREE LECTURE SYSTEM IN AMERICAN CITIES.

During recent years, boards of education in some of the larger cities of the country have supported a system of free lectures, given in public school halls, for the benefit of the great mass of people. The object is to make the less fortunate better informed, more thoughtful citizens, and to inculcate in them higher aims, thus leading them to higher and better moral and physical life, with the ultimate result that they will be better able to cope with the exigencies of life. An undertaking vibrating with such a soulful purpose deserves careful consideration by the people generally and by the school boards of all cities in particular.

In the month of January, 1889, a movement was inaugurated in the public schools of New York City, which has proven a most popular addition to the scope of the educational work, performed under the auspices of the board of education. This was the establishment of the remarkable system of free lectures for the people.

An appropriation of \$15,000 was made by the city for the purpose of supporting a series of evening lectures, given in six different school houses. The total number of lectures in the first season was 186. The total attendance was 22,149, or an average of 119 persons at each lecture. The second year the work was carried on a larger scale, running from October to April, at seven centers, at which 329 lectures were given, resulting in a total attendance of 26,632, or an average of 81 persons at each lecture. At this juncture a change in the management was made, and Henry M. Leipziger, Ph. D., a practical educator of wide experience, was chosen by the board of education to superintend the lectures. Under his management the system proved a phenomenal success. Last season 3,172 lectures were given. The total attendance was 928,251.

An examination of the reports of these free lectures shows a gradual development and a steady improvement, both in their character and extent. It is attempted to adapt the work to the actual needs and highest interests of the people.

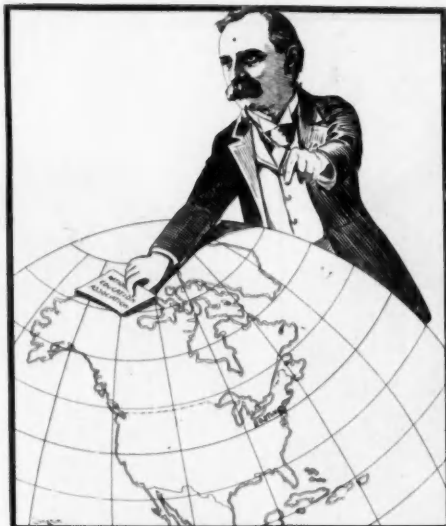
In one center a course of twenty-five lectures on "Practical Electricity" was given last winter. The auditors were in the main men engaged in callings where a knowledge of electricity would prove a great value. An average attendance of 200, marked by great regularity, was secured.

The course of lectures at some centers are





The fall opening of colleges as seen by cartoonists.



Albert E. Winship points out Boston as the next N. E. A. city.



The comparative size of the collective school desk of a school house.

arranged almost like a college course. In one center fifty lectures on "History and Literature" are given; at another, a lecture, each Saturday night, on some subject in natural science. A survey of the subject-matter of the lectures shows that nearly every known field is covered.

Wherever possible the lectures are illustrated, either by stereopticon views, by experiments, by musical selections, or by readings.

In 1898, in Boston, a system of free lectures was arranged for the people by the city and conducted by the educational department of the Twentieth Century Club. The lectures were given by men and women well known in the vicinity of Boston. In the Girls' High School, West Newton Street, the following six subjects were presented in successive weeks. (1) Shakespeare as a Man and Poet; (2) Electricity, Thales to Franklin (stereopticon experiments); (3) Electricity, Galvani to Edison (stereopticon experiments); (4) Boston Anti-Slavery Days; (5) Electricity, Faraday to Tesla (stereopticon experiments); (6) Niagara Falls (illustrated by stereopticon).

In this course, electricity was the central theme. In another school special attention was drawn to the public institutions and interesting places in and about Boston: (1) The Public Library; (2) Half Holidays in Museum of Fine Arts; (3) Historic Buildings in Boston;

(4) Interesting Places in Cambridge; (5) Boston in the Revolution; (6) Parks in and Around Boston.

Similar courses of six lectures were in progress on the same dates and at the same evening hour (7:45) in six different school buildings. A great variety of popular subjects was presented. They were, however, for the most part chosen from the local or American environment, or at least the world of nature, which is always near and around us. Such themes as "Insect Life," "How Plants Scatter Their Seeds," "The Photography of Wild Animals," "The Beauty of Nature," greatly interested and instructed the people.

Free lectures for adults in Philadelphia were instituted in 1898-99. Their purpose was to make known Philadelphia's contributions to history, science, art, literature, commerce, jurisprudence and philanthropy. The lectures were designed especially for public school teachers, but were open to the public generally.

The School Board of Chicago has given encouragement to free lectures in the public school halls. The initial courses were introduced in 1897.

In Milwaukee, the Board of School Directors has made an appropriation for evening lectures on history, literature, the natural sciences and kindred subjects, to be given in the assembly halls of the public schools this winter. Wm.

L. Pieplow, a member of a special committee, having the matter in charge, recently stated: "We have a large number of splendid school buildings, representing an enormous investment, and which, from an economic point of view, do not render sufficient service to the public who pay for building them. The object of the free lectures is to benefit the adult population of the city, and the following advantages may be urged:

"(1) It will prove a school of instruction to hundreds, who otherwise receive no mental stimulus; (2) it will serve, to a large number, as the means of a high class, refining entertainment; (3) to many the lecture room will offer a social center for the renewing of old acquaintances and the forming of new ones; (4) to the more studious the lectures will be of special value, both on account of their intrinsic merit and because of their educational advantages."

Chicago, Ill.—The school management committee mustered up courage enough to dispense with the services of a teacher who had taught nineteen years, whose unfitness for longer usefulness had been pretty clearly demonstrated. Trustee Cameron, on behalf of his colleagues, made the confession that whenever a teacher was recommended for dismissal some member of the board insisted upon her retention and that generally ended the matter. "Let us quit it," he exclaimed, and the committee did quit it in one case, but by the narrow margin of 3 to 2.



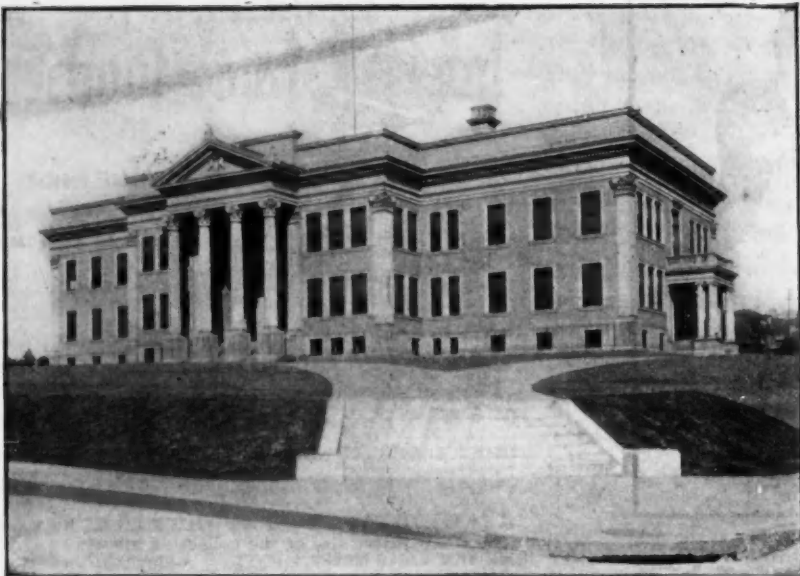
Types of faces among the German teachers at the recent examinations in Chicago.



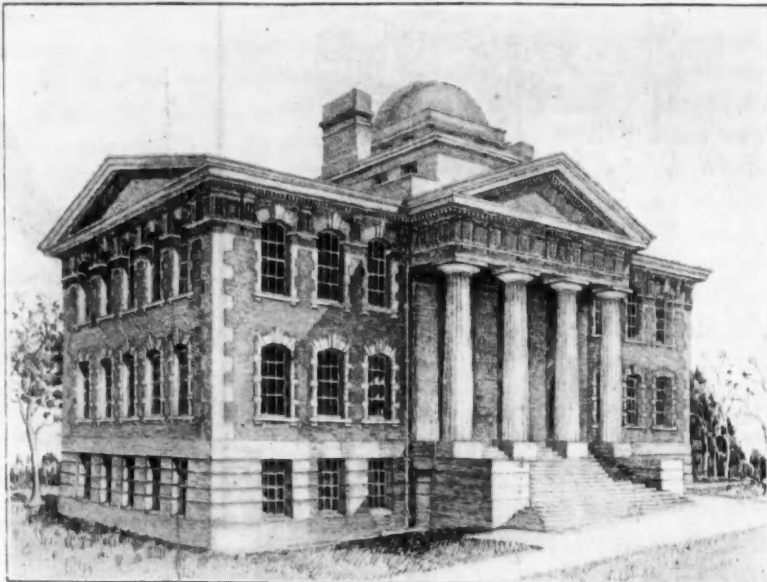
In Memoriam. Edward Eggleston, author of Eggleston's History and the Hoosier Schoolmaster.



The unscrupulous politician on the modern Board Education.



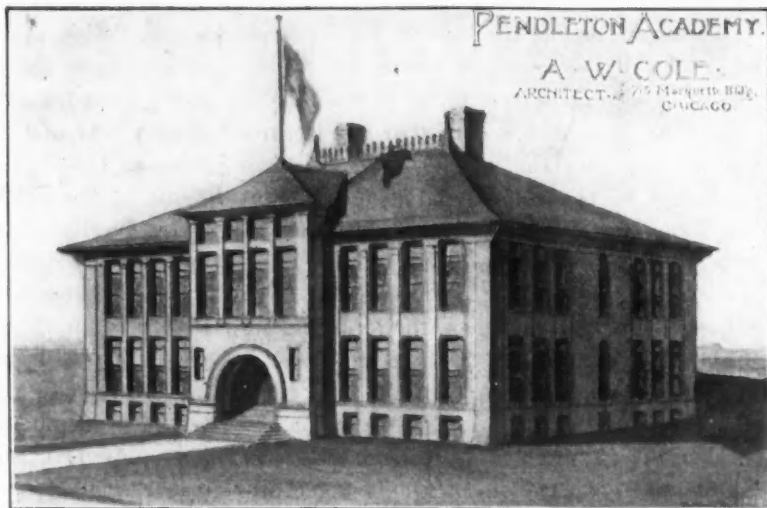
FRIENDSHIP SCHOOL, PITTSBURGH, PA.  
C. M. BARTBERGER, ARCHITECT.  
Fitted with Cabot's Deafening Quilt, manufactured by Sam'l Cabot, Boston.



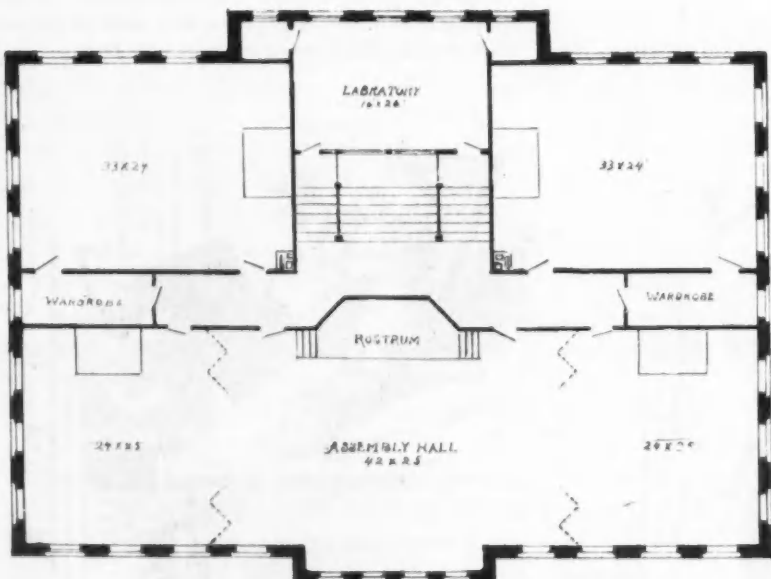
SCIENCE HALL, EMORY COLLEGE, OXFORD, GA.  
G. L. NORRMAN, ARCHITECT.



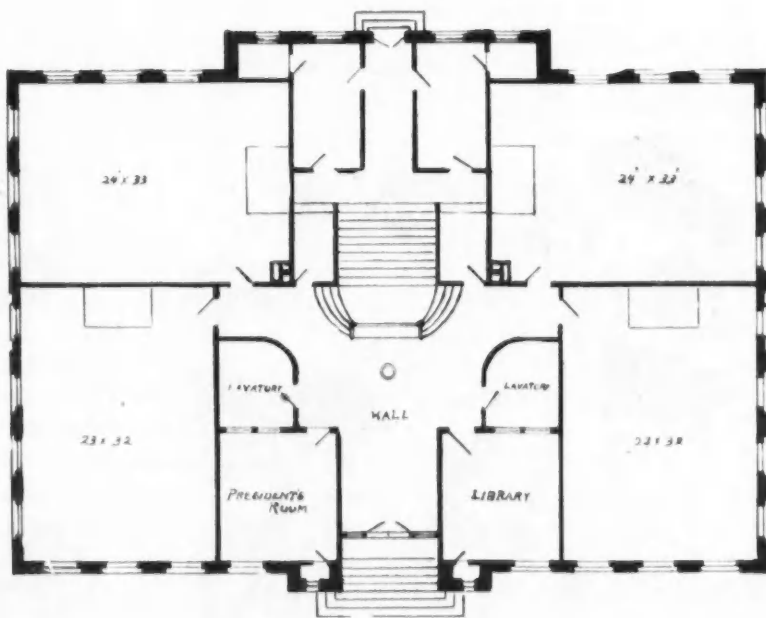
CARNEGIE LIBRARY, SALINA, KAN.  
FREDERICK C. GUNN, ARCHITECT, KANSAS CITY, MO.



PROSPECTIVE OF PENDLETON ACADEMY,  
A. W. COLE, ARCHITECT, CHICAGO. (See plans below.)



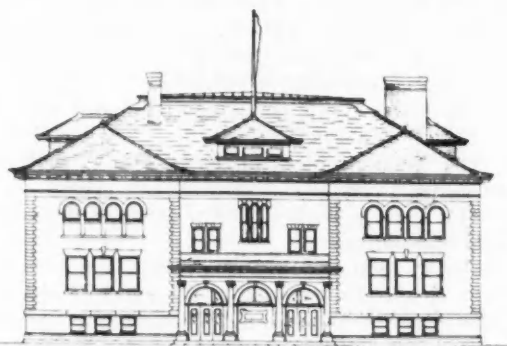
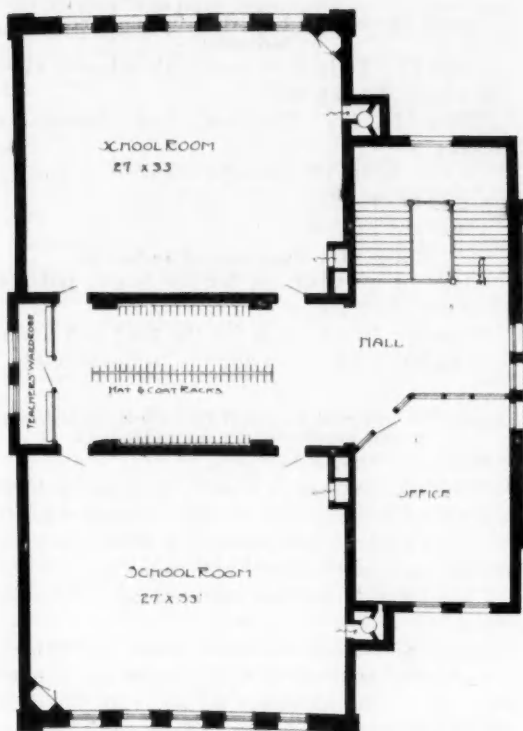
SECOND FLOOR



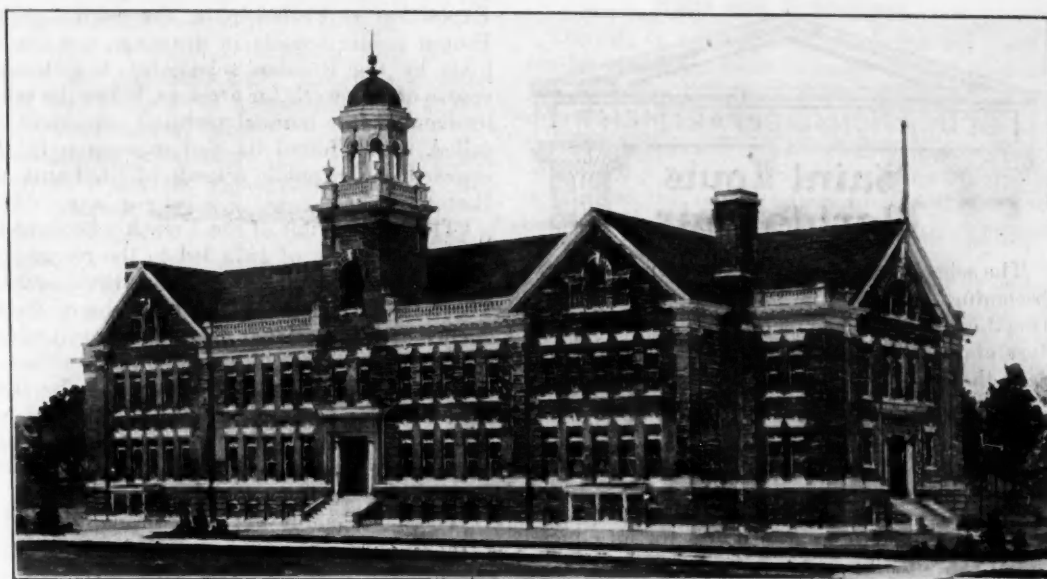
FIRST FLOOR

PROSPECTIVE AND FLOOR PLANS OF PENDLETON ACADEMY.  
A. W. COLE, ARCHITECT, CHICAGO, ILL.

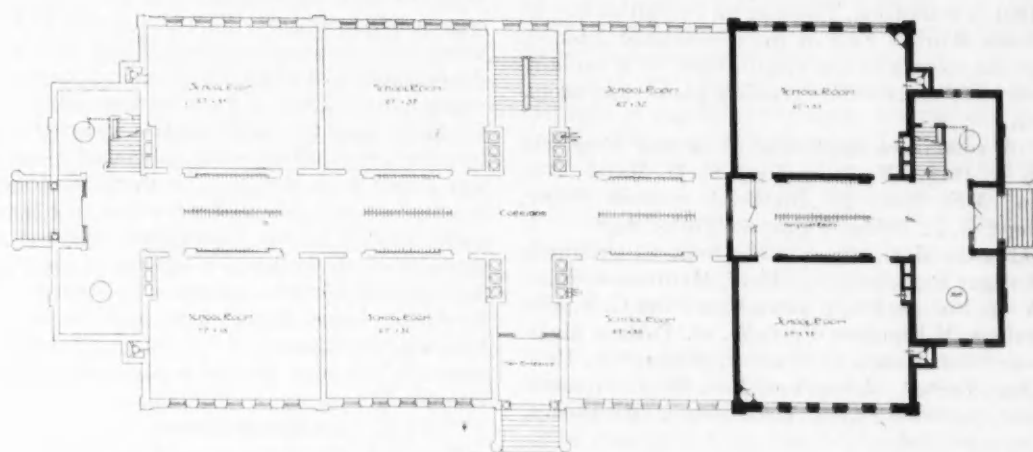




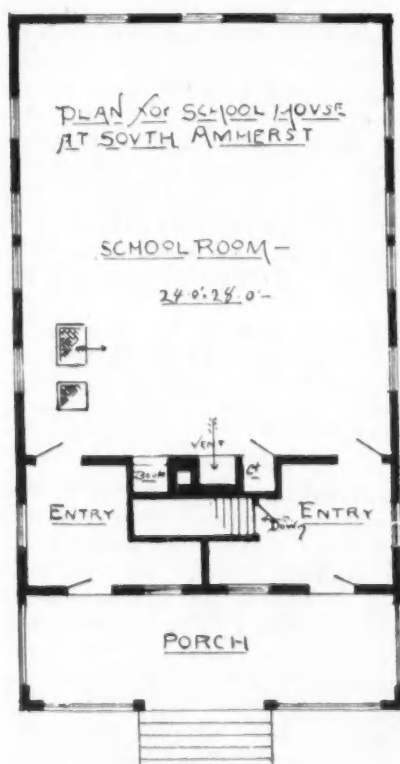
X NEW CENTRAL SCHOOL, LINCOLN, NEB.  
10 Class Rooms, Library, Reading Room and Manual  
Training Rooms. Cost \$25,000.  
LEACH & PLYM, ARCHITECTS, LINCOLN, NEB.



THE NEW SMEDLY SCHOOL, AS IT WILL APPEAR WHEN COMPLETED.

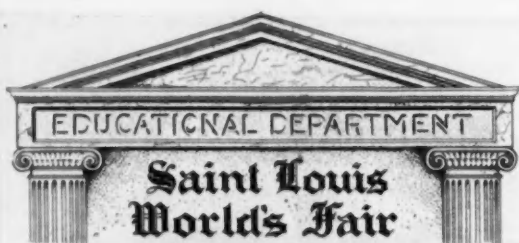


FIRST FLOOR PLAN, NEW SMEDLY SCHOOL, DISTRICT 17, ARAPAHOE COUNTY, COLO.  
THE F. E. KIDDER CO., ARCHITECTS, DENVER, COLO.  
Shaded portion built 1902. Unshaded portion to be built later.



FLOOR PLAN AND PROSPECTIVE, NEW SCHOOL HOUSE, AMHERST, MASS.  
Cost, complete with furnishings, \$1,004.50. H. F. PUTNAM, ARCHITECT, NORTHAMPTON, MASS.

## RECENT MODERN SCHOOL HOUSES.



The school authorities in the various states are becoming active in the preparations for educational exhibits. Some of the states have already formulated plans, while others are still in doubt as to the proper course to pursue.

The following report, which comes from Wisconsin, may serve as a guide. A committee appointed by the Teachers' Association of that state sends a communication to the State Commission of the World's Fair, with a view of securing an adequate appropriation for an educational exhibit.

*To the Wisconsin State Board of Managers, St. Louis World's Fair.*

GENTLEMEN: At the meeting of the Wisconsin Teachers' Association, held in December, 1901, a resolution, favoring an exhibit at the St. Louis World's Fair of the educational interests of the state, and the appointment of a committee to formulate the necessary plans, was adopted.

A committee consisting of Acting President E. A. Birge, Madison; Prof. C. D. Marsh, Ripon; Mrs. Mary D. Bradford, Stevens Point; Supt. S. B. Tobey, Chippewa Falls; Supt. J. T. Edwards, Marinette; County Supt. C. O. Marsh, Antigo; Principal F. S. Hyer, Manitowoc; Supt. A. W. Burton, Green Bay; Miss Nina C. Vandewalker, Milwaukee; Prof. W. D. Parker, Madison; Prof. Robert C. Spencer, Milwaukee; Prof. Chas. Bartelt, Milwaukee; Rev. W. J. Fitzmaurice, Appleton; Wm. Geo. Bruce, Milwaukee, was appointed.

The members of the committee are connected with and represent the following branches of education:

University, colleges, normal schools, high schools and academies, grades, county superintendents, county training schools, manual training schools, kindergartens, defectives, dependents and delinquents, commercial schools, Lutheran parochial schools, Catholic parochial schools, educational press.

In this communication, addressed to your honorable body, it is our purpose to state, briefly, the reasons for making an exhibit, outline a plan for such exhibit and render an estimate as to the labor and material required, together with the probable cost for same, etc.

#### The Exhibit Idea.

It is now definitely known that the educational exhibits at the St. Louis World's Fair will, in scope and detail, surpass all former attempts in this direction. Towards making this fact more plain we can do no better than quote Mr. Howard J. Rogers, Chief of the Department of Education, who in a recent personal interview with one of the members of this committee, made the following statement:

"Expositions have not only recorded the progress of nations but have served to round out and harmonize the national life by drawing attention to the weak as well as the strong points of national development and in suggesting the remedies therefor. Particularly has this been true in education. Two or three of the most notable advances and departures in educational matters are directly attributable to the influence of international expositions. The beginning of industrial art in England, which was afterward developed under South Kensington influences, had for its start the Crystal Palace exhibition in London in 1851. In 1876, at the Centennial

Exposition at Philadelphia, the exhibit of the Boston public schools in drawing, and the exhibit by the Russian schools of a systematic course of shopwork for artisans, led to the establishment of the manual training movement, so-called, which found its first expression in this country in the public schools of St. Louis and Boston.

"The poor exhibit of the French schools at the Paris Exposition of 1878 led to the reorganization of primary instruction in that country. These are, of course, notable examples of the influence of international expositions upon education, but who can estimate the vast amount of benefit, which has been derived from the thousand and one ideas picked up by teachers and superintendents and members of boards of education and carried by them to the uttermost parts of the world.

"There has never yet been brought together a thoroughly comprehensive and comparative exhibit of education. The most successful efforts thus far have been those at Chicago in 1893 and in Paris in 1900, but at the former the exhibit of England and France was deficient, and in addition to that the 'exhibit idea' had not thus far been sufficiently developed among our own people to permit of a well-selected and systematically-arranged exhibit. There were many duplications and much tiresome repetition. The exposition of 1900 at Paris was an advance so far as the quality of the exhibits was concerned, but the great educational system of Germany was absent from the fair. It therefore remains for St. Louis to present for the first time a complete exhibit of the educational systems and agencies of all the leading nations of the world. The feeling towards education is most cordial in the St. Louis management, and for the first time in the history of expositions a building adequate has been devoted solely to educational interests."

#### Plan of Exhibit.

The plan of exhibit as outlined by the chief of the department of education and which is submitted herewith, has been adopted as a basis by this committee:

#### Classification.

In the division of the educational field, eight main divisions or groups have been provided for in the official classification. The classification in full is as follows:

##### Group I.—Elementary Education.

- Class 1. Kindergarten.
- Class 2. Elementary grades.
- Class 3. Training and certification of teachers.
- Class 4. Continuation schools, including evening schools, vacation schools and schools for special training.

##### Group II.—Secondary Education.

- Class 5. High schools and academies; manual training high schools, commercial high schools.
- Class 6. Training and certification of teachers.

##### Group III.—Higher Education.

- Class 7. Colleges and universities.
- Class 8. Scientific, technical and engineering schools and institutions.
- Class 9. Professional schools.
- Class 10. Libraries.
- Class 11. Museums.

##### Group IV.—Special Education in Fine Arts.

- (Institutions for teaching drawing, painting and music.)
- Class 12. Art schools and institutes.
- Class 13. Schools and departments of music, conservatories of music.

##### Group V.—Special Education in Agriculture.

- Class 14. Agricultural colleges and departments; experiment stations; instruction in forestry.

##### Group VI.—Special Education in Commerce and Industry.

- Class 15. Industrial and trade schools; evening industrial schools.

- Class 16. (a) Business and commercial schools.

- (b) Higher education in commerce.

- Class 17. Education of the Indian.

- Class 18. Education of the Negro.

##### Group VII.—Education of Defectives.

- Class 19. Institutions for the blind; publications for the blind.

- Class 20. Institutions for the deaf and dumb.

- Class 21. Institution for the feeble-minded.

##### Group VIII.—Special Forms of Education—Text Books School Furniture, School Appliances.

- Class 22. Summer schools.

- Class 23. Extension course; popular lectures and people's institutes; correspondence schools.

- Class 24. Scientific societies and associations; scientific expeditions and investigations.

- Class 25. Educational publications, text-books, etc.

- Class 26. School furniture, school appliances.

A careful analysis of this classification shows that all of the elements to be represented in the educational exhibit may be grouped under eight general heads as follows:

- (1) Legislation, organization and general statistics.
- (2) Buildings, their location and design; systems of heating, lighting, ventilation and sanitation; furniture and fitting.
- (3) The training of teachers.
- (4) Apparatus and school appliances.
- (5) Text-books.
- (6) Regulations; courses of study; methods of instructions.
- (7) Pupil's work—literary, artistic, scientific and mechanical.
- (8) Results of original investigation.

It is not the purpose of the chief of the department of education to hold exhibitors strictly to this plan. Sufficient flexibility is admitted to enable us to give the exhibit a certain individuality and to emphasize certain features, which may be characteristic of our state system of education.

#### The Preparation of Exhibits.

In order that the various educational institutions and the public and private school systems of the state may proceed with the preparation of exhibits, in keeping with the plans outlined, the services of competent persons must be secured. Such persons should act in the capacity of secretary and stenographer and be placed under the direction of this committee. They should be paid a salary sufficient to enable them to devote their whole time to the work, beginning with March 1, 1903, and ending with May 1, 1904.

The cost for the material consumed in the preparation of the exhibits, the packing and shipment of same is to be borne by the respective institutions and systems making the exhibits.

#### Exhibit Space.

The space actually required for the Wisconsin educational exhibit cannot at this time be designated with any degree of accuracy. In arriving at an estimate, however, we have taken the floor space of 2,640 square feet, occupied at the Columbian World's Fair by the Wisconsin educational exhibit, as a fair basis. The former state committee applied for 6,000 square feet but was granted only 3,260 square feet. This eventually was cut down to 2,640 square feet by the World's Fair authorities, owing to a pressure for space.

Taking into consideration the former disposition of space, the fact that the state has undergone a marvelous growth in ten years and that, therefore, its exhibits will be proportion-



ately larger, it is only reasonable to assume that increased space will be required. Coupled with these conditions must be considered the further fact that the great prominence given to the educational interests at the St. Louis World's Fair will prompt the various states to double their efforts in making most complete and comprehensive exhibits. Thus taking into account every phase of the situation we recommend the acquirement of space, for the various interests, as follows: University, 500 square feet; normal schools, 800 square feet; private and denominational colleges, 600 square feet; collective public schools, 2,600 square feet; private schools, 500 square feet, making a total of 5,000 square feet.

#### Installation of the Exhibits.

Much of the success of an exhibit depends upon its installation. The St. Louis authorities will provide nothing more than the blank floor space, without expense however. The booth, together with the necessary partitions, shelving and drawers, together with the furniture and fixtures, will have to be furnished by the state. The architectural design of this structure ought to be worthy and appropriate of its contents and the occasion.

The plans for a booth which shall be tasteful in exterior and interior, both as to form and color, should be drawn and the construction of the work undertaken at some point in the state, and then shipped to St. Louis for erection. It is safe to say that labor and material will be high priced and difficult to obtain in the World's Fair city at a time when exhibits are about to be installed.

The plans for the booth should be presented to the board at the proper time for approval.

#### Maintenance of Exhibits.

The secretary of the committee and his assistant should, if possible, be employed during the entire time while the fair is open. The exhibit would thus be in charge of those who were active in its preparation, and, therefore, familiar with its scope and nature, and could give to visitors such information, regarding the educational interests of the state, as may be desired. The assistant should relieve the secretary during certain hours of the day, in order that the exhibit will constantly be looked after. The secretary should report to such official representative of your commission at such time and in such manner as you may designate.

#### Return of Exhibits.

It is more than likely that the various educational institutions and school systems making an exhibit, want the material returned to them, for future use. Provision will, therefore, have to be made to repack all material and send it direct from St. Louis to the various points in Wisconsin. The labor and expense attached to the carrying out of this plan should not be overlooked.

#### The History of Education in Wisconsin.

The development of the educational interests of the state was treated in a volume, entitled the *Columbian History of Education in Wisconsin*, published by a committee of the Wisconsin State Teachers' Association. The sum of \$500 was appropriated by the Wisconsin Commission for the publication of the work, which covered over 700 pages. This sum did not cover the cost of the publication, nor did the proceeds from the sale of several hundred copies make up the entire expense of the work.

Two thousand copies were printed and given to educational institutions, in this and other states, and to distinguished visitors, who desired to inform themselves, thoroughly, as to the growth and development of our system of education.

We would recommend to you that this work be republished and extended down to date and amplified so as to make it complete in every

particular, or else that a supplement to the work be published, extending it to date.

The republication of the work with the revisions and additions could not, in our judgment, be attempted at a cost less than \$1,000.

Estimated cost of exhibit:

Booth for the installation.....	\$1,500
Salary secretary and stenographer.....	2,200
(March 1, 1903, to May 1, 1904.)	
Personal expense of committee.....	500
Freight, cartage and express.....	300
Telegrams and postage.....	250
Printing and stationery.....	1 200
Maintenance, including salaries.....	2,000
(May 1, 1904, to Nov. 1, 1904.)	
Labor and material.....	800
History of Education in Wisconsin.....	1,000
Miscellaneous .....	500
	<b>\$10,250</b>

These figures, as stated at the beginning of this report, are based, largely, upon the cost of the Wisconsin educational exhibit, made at the Columbian Exposition in 1893. The increased cost may be assigned to the fact that a larger and more comprehensive exhibit will be necessary in view of the prominence given to the subject of education at the St. Louis World's Fair. Again, the enormous growth and development of the educational interests of the state will, in order to represent them adequately and in a worthy manner, involve more labor and increased expense.

We urge your honorable body, most earnestly, to take under advisement the proposition for an exhibit, the plan and cost for same as submitted herewith, and its favorable acceptance at your hands. We hold ourselves in readiness to advise and counsel with you at any and all times, in order to make the enterprise a complete success and thereby add dignity and luster to Wisconsin's position as a progressive state in the World's greatest Republic.

(Signed) E. A. BIRGE, *Chairman*,  
C. D. MARSH,  
MARY D. BRADFORD,  
S. B. TOBEY, *Secretary*,  
J. T. EDWARDS,  
C. O. MARSH,  
F. S. HYER,  
A. W. BURTON,  
NINA C. VANDEWALKER,  
W. D. PARKER,  
ROBERT C. SPENCER,  
CHARLES BARTELT,  
W. J. FITZMAURICE,  
WM. GEO. BRUCE,  
*The Committee.*



PROF. D. L. BARDWELL,  
Elected Assistant Superintendent of the  
Greater New York Schools.  
Binghamton, N. Y.

#### Rules and Regulations.

Dayton, O. The system of paying the teachers by requiring them to come to the office of the secretary for their salary orders has been deemed very cumbersome, inconvenient and expensive. A new regulation was, therefore, adopted authorizing and directing the principals to deliver the salary orders to their respective teachers and to return proper receipts for them to the secretary.

The territorial school superintendent of Oklahoma has issued an order prohibiting the use of school houses for the purpose of holding dances. They destroyed the benches and cut up the blackboards, and the teachers also complained that after every dance the room smelled of liquor for several days following. This had an evil effect upon the children and the general order forbidding school directors to rent or grant free the use of any schoolroom for dancing purposes was then issued.

Minneapolis, Minn. Athletics in the high schools have been placed under the control of a board consisting of the high school principals and the superintendent. No pupil is permitted to play without first bringing a written request from his parents to be allowed to do so, and even then cannot participate in match games unless he shows a passing mark in his studies.

Canton, Ill. Teachers failing to comply with the rule in regard to tardiness, for the first infraction thereof, are reported to the superintendent; for the second infraction, are reported to the board, and in case of further disregard of the rule the services of such teachers may be declared unsatisfactory.

Woonsocket, R. I. The percentage of teachers who are not normal school graduates is surprisingly large. The superintendent, in a report to the board, contends that the city is entitled to better preparation by its new teachers, and should either maintain a training school or hereafter elect only those who possess both high and normal school certificates.

Erie, Pa. No teacher is appointed to a position in the high school unless such teacher has previously had at least two years' experience in teaching.

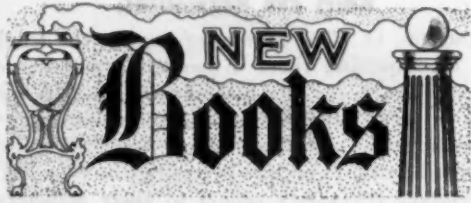
Minneapolis, Minn. Hereafter every teacher, even though she be a graduate of a normal school, will be required to have one year of successful teaching experience in a system of graded schools before she can become eligible here.

Hazleton, Pa. No social functions can be carried out under the auspices of or in the name of the high school, except with the consent of a committee of the board. Dancing is absolutely prohibited.

Austin, Tex. Teachers desiring or intending to sever their connection with the schools are supposed to notify the board thirty days in advance. It is the duty of all teachers who apply for employment outside of the Austin schools to notify the teachers' committee of such application, and if made after the re-election of such teacher in June of any year and before September 1. The teachers are required to attend some normal institute or professional school during a part of the vacation at least once in three years.

Denver, Colo. After a teacher has passed the necessary examination in regard to her mental qualifications, she must pass another wherein her walk, manners and conversation must come up to a certain required standard.

The laws of Oregon require and the state board enjoins teachers "to the utmost of their ability to inculcate in the minds of their pupils correct principles of morality and a particular regard for the laws of society, and for the government under which we live."

**The Sunbonnet Babies' Primer.**

By Eulalie Osgood Grover, and with illustrations by Bertha L. Corbett, "the mother of the sunbonnet babies." Published by Rand, McNally & Company, Chicago, New York.

The little work is one of the odd conceits which fills a much larger place than many such books do. If there is anything that fills a child with delight it is the doings of other children, and in this the author has struck a singularly excellent field, where so much that is commonplace is used to guide the shooting idea. The gentleness with which she has guided the young reader to new words is especially good. One wonders that so much can be done in the way of expression without the appearance of a face in the pictures, but the artist has left no uncertainty as to the doings of the babies in them. The book is admirably adapted to supplementary reading among beginners and is deserving of a wide sale in primary departments. The things which are shown the little readers embrace "Who We Are," "How We Play," "Our Garden," "Going to School," "Hurrah for Saturday!" "The Chickens," "The Two Stores," "The Picnic," "The Circus," "It Is Fall," "Fun in the Snow," "A Wish," and "The Sunbonnet Babies' March."

**Lessing's Minna von Barnhelm or Soldiers' Fortune.**

Twentieth Century Text Books. With Introduction, notes and vocabulary. By Charles Bundy Wilson, Professor of German Language and Literature in the State University of Iowa. 196 pages. Price, 50 cents. Published by D. Appleton & Company, New York, Chicago.

This pretty and instructive German drama is attractively presented. It is handsomely illustrated and liberally supplied with notes. The introduction gives the historical background to the drama and furnishes considerable valuable matter bearing on the author and the play.

**The Essentials of Business Law.**

By Francis M. Burdick, Dwight Professor of Law in Columbia University Law School. Twentieth Century Text Books. 285 pages. Price, \$1.25. Published by D. Appleton & Company, New York, Chicago.

This book is entitled to a hearty reception. It meets the wants of commercial high schools and business colleges. It is a compact, well arranged work in commercial law, covering the subject in a comprehensive manner. The home student and business man can also use the book to advantage.

**The Ideal Word Book.**

Published by A. Flanagan & Company, Chicago.

The present volume is a revised edition of the book, which made its appearance some time ago. Eight pages have been added, two of which consist of script and illustrations to follow group one. Four pages of drill phonograms are intended to strengthen the pupil in the irregularities in English spelling. The other two pages follow group five, making special drill upon words associated in idea. The additions strengthen the book materially.

**Stories of Woods and Fields.**

By Elizabeth V. Brown, Normal School, Washington, D. C. 192 pages. Published by the Globe School Book Company, New York, Chicago.

Subjects familiar to children that may be observed anywhere in the great out-of-door school, in the city garden and park, as well as in the

woods and fields, are treated in a most charming and instructive manner in these stories, which have been arranged in sequence, according to season, to aid the young observer in his rambles with Dame Nature.

The many excellent poems are proof that great care was exercised in making their selection, and with a view to having them memorized by the children. The book contains many handsome colored pictures, and the front cover is exceptionally attractive.

**An Elementary Commercial Geography.**

By Cyrus C. Adams, Author of a text book of commercial geography. 351 pages. Price, \$1.00. Published by D. Appleton & Company, New York, Chicago.

The author gives, simply and broadly, a view of the world and its relation to man as a producer and a trader. Particular emphasis has been given, throughout the book, to improved transportation, the application of steam power to manifold forms of machinery, and the progress in chemical science as the main factors in the present development of commerce and industries. Special attention is called to the great trade routes that are followed by those commodities, which are most prominent in international commerce.

In the chapters on the United States, the author treats the natural distribution of the country and the commerce in them very fully. Foreign countries are discussed only in their broadest aspects,—their resources, what they have to sell, what they need to buy, their commercial facilities, and their trade relations with the United States. The maps and other illustrations aid very materially in illuminating the text and imparting information that could not otherwise be so clearly conveyed.

Nearly all statistics are tabulated at the end of the volume in a very convenient form and can be readily applied to the work in the classroom. The book meets the needs of students who complete their school drill in the grammar grades.

**Einem Muss Heiraten.**

By A. Wilhelm. Edited by M. B. Lambert, Boys' High School, Brooklyn. Cloth, 12mo, 112 pages. Price, 30 cents. American Book Company, New York, Cincinnati and Chicago.

This is a short comedy suitable for elementary reading in German. It is bright and witty and is an aid in acquiring the idioms of the language.

**Literature, For Fifth-Reader Grades.**

Compiled and arranged by Sherman Williams. 480 pages. Published by Butler, Sheldon & Company, New York, Philadelphia, Boston, Chicago.

Reading lessons in the grades below the high schools should teach the art of reading and create a taste for good literature. This twofold object was kept constantly in mind in the preparation of this reader. The best in American and English literature has been brought into use. The mediocre is discarded entirely.

**Under Sunny Skies.**

Third volume issued in Youth's Companion Series of Supplementary Readers. Cloth, 138 pages. Illustrated. Price, 25 cents. Published by Ginn & Company, Boston, New York, Chicago.

This volume contains sketches which are mainly concerned with the outward aspects of life in Spain, Italy, Greece, Turkey, Asia Minor, and Northern Africa. The variety, not only in material but also in treatment, makes impossible the dullness too often found in books of travel, and will prove a refreshing change in routine school work.

**Wretched Flea, or the Life of a Chinese Boy.**

By Mary Muller, author of "Little People of the Snow." Cloth, 160 pages. Numerous illustrations. Price, 35 cents. Published by A. Flanagan Company, publishers, Chicago.

The quaint custom in China of attempting to fool evil spirits is shown by the peculiar name of the boy whose life is related by the author in an entertaining and instructive manner. Many of the numerous illustrations are photographs from life.

**Geschichten von Deutschen Städten.**

By Menno Stern, author of "Geschichten vom Rhein." Cloth, 12mo, 420 pages. Price, \$1.25. Published by the American Book Company, New York, Cincinnati, Chicago.

The stories in this volume in tone and contents describe faithfully the various cities of the German Empire portraying their local color and giving their local traditions. Besides furnishing interesting and attractive reading matter, the book includes, also, valuable suggestive material for exercises in conversation and composition. It is well suited for intermediate and advanced grades, and is carefully edited, with complete vocabulary. It is supplied with maps showing the locations of the cities mentioned. The style is clear, yet idiomatic, and the subject matter consists not merely of fiction, but furnishes also many facts of historical, geographical and literary importance.

**Latin Composition.**

By Anna Cole Mellick, A. B., Brearley School, New York. Cloth, 12mo, 49 pages. Price, 40 cents. Published by the American Book Company, New York, Cincinnati, Chicago.

The purpose of this little book is to fix the more important rules of Latin syntax in the minds of beginners. It contains twenty-five lessons, each lesson having two exercises, one to be done with the aid of a grammar, and one from memory. The lessons are systematically graded and in the hands of a competent teacher will, no doubt, obtain satisfactory results.

**Juvenal.**

By Henry Parks Wright, Professor of Latin in Yale College. College Series of Latin Authors. 240 pages. Published by Ginn & Company, Boston, New York, Chicago.

There is completeness about this edition of Juvenal which will commend it to teacher and student. Besides an excellent text, it contains a biographical sketch, critical notes on the syntax and diction of the poet, and satisfactory notes on the text. These last are conveniently placed under the text.

**Animal Forms.**

By David S. Jordan, M. S., M. D., President of Leland Stanford Junior University, and Harold Heath, Ph. D., Professor in Leland Stanford Junior University. Twentieth Century Text Books. 258 pages. Price, \$1.10 net. Published by D. Appleton & Company, New York, Chicago.

This volume is a new and up-to-date text book of zoology especially designed for beginners. Its claims to simplicity, conciseness and comprehensiveness are well founded. The striking features are its clearness in drawing the boundary line between the vegetable and animal kingdoms, the well graduated ascent from the lowest to the highest animal forms, and its numerous and splendid drawings and photographs. It will serve as an excellent guide to the teacher of zoology, especially if supplemented with further information under each of the characteristic types chosen. Moreover, "a personal acquaintance with a few animals in their native haunts," as the preface suggests, will sharpen the faculties of observation and afford a great deal of innocent and interesting recreation.





Col. C. W. Johnson    W. H. Maddock    J. W. Davis    O. Stigall    F. W. Arbury    W. C. Hazzard    J. F. McCullough    C. H. Congdon  
C. S. McLean    Mrs. M. J. Dunn    John Knox    Frank D. Farr, W. Mgr.    E. R. Jones    C. W. Turner    D. R. Cowles    Miss Marion F. Whyte    F. D. Beattys  
E. W. Fielder    E. O. Silver, Pres.    H. C. Deane, Vice-Pres.    O. S. Cook    G. E. Welles

### OFFICERS AND REPRESENTATIVES OF SILVER, BURDETT & COMPANY

#### Of Opposite Temperament.

The bookmen in the West tell a story on Hubert M. Skinner of the American Book Company's Chicago office. Mr. Skinner is a man of high literary attainments, who is perfectly at home with all the great authors and their masterpieces. He is a mild mannered man, of refined tastes and gentle speech.

During the Kansas contest, he was called to that state to meet, at Topeka, Major Clancy, the company's representative. On the train Mr. Skinner fell in with a preacher, whose inclination and tastes corresponded most happily with his own. The two men soon became bosom friends and delved into the realms of literature during the entire trip.

"Our representative, who will meet me at Topeka, is also a man who delights in the great authors," said Skinner, enthusiastically. "I should be glad to have you meet him. He is a gentleman of great culture and refinement."

The preacher was pleased at the expectation of meeting another gentleman of the gentle, scholarly type to which his companion belongs.

Those who know Major Clancy, also know that he is, at times, as brusque as an old army general. When he gets busy in a book fight, he doesn't stand on ceremony, more especially when talking to other bookmen.

When the train stopped at Topeka, Skinner was still absorbed in a discussion of a poet of the romantic school.

The Major was on the platform and looked about for Skinner, but among the passengers who had alighted, he saw nothing that looked like his man. With a grunt of impatience he boarded the train to look for the literary gentleman.

"Why in Sam Hill don't you get off the train," thundered the Major, as he spied Skinner. "Dodgast your infernal hide; get a move on you."

"But my dear Major——" interrupted Skinner, in a subdued voice.

"Oh, come off—this train will be in San Francisco before you can explain," replied the Major in a stentorian voice. "We have a book fight on hand and no time to lose. Get your traps and follow me."

Before Skinner realized what had happened, he was hustled off the train, sans ceremonie, without being able to give his preacher friend a parting hand-shake, make any explanations or even introduce him to the Major.

J. M. Eppstein, who has been with the American Book Company for several years, received a flattering offer last January, as did a number of other bookmen, to enter the insurance business. Upon mature reflection, however, he concluded to remain in a field of work in which he had been successful and in which he felt himself at home.

E. W. A. Rowles, the enterprising Chicago school supply dealer, makes a liberal offer. He will furnish a map with a gross of pens or a gallon of ink for \$1.

Frank V. Irish, the Chicago publisher, has been ill with appendicitis. He has undergone an operation and is now on the way to recovery.

W. S. Smyth, Sr., western manager for D. C. Heath & Company, spent the summer on the coast of Maine. He is greatly improved in health and will soon be in the harness again. Mr. Smyth has been absent for almost a year, owing to ill health. During this time no one was particularly assigned to take his place. His labors were divided among his assistants and everything ran smoothly. This is, indeed, a compliment to Mr. Smyth's ability as an organizer, in that he has surrounded himself in his labors as manager with competent men.

#### A Recognized Authority.

When Noah Webster set about compiling an American Dictionary of the English Language, he did better even than he expected. He did a great deal to make possible the present purity and high standard of language used in the United States. From time to time his original work has been revised and enlarged by hands even more competent than his own, till to-day in the form of WEBSTER'S INTERNATIONAL, to which has been added 25,000 new words, bringing it thoroughly up to date, it easily stands at the head of recognized lexicons as is attested by testimonials which we have seen from eminent scholars, statesmen, diplomats, judges and authors throughout the world.

In purchasing this up-to-date volume for the home, school or office you may be sure you are getting not only the latest but the best.

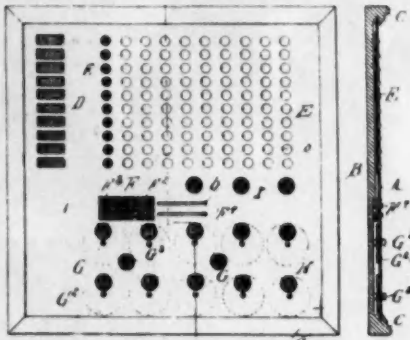


J. M. EPPSTEIN,  
Representative American Book Company,  
Chicago.



## Recent Patents Granted.

APPARATUS FOR TEACHING PRIMARY ARITHMETIC.  
Asmus F. Lorenzen, Detroit, Mich.



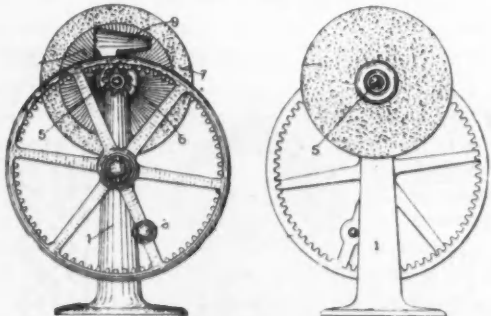
In an arithmetical apparatus, composed of a face-plate provided with apertures having slides and arranged to form color-dots, the combination of the group E of circular color-dots arranged in ten rows of ten each, each row having a different color from the adjacent row, a group D of ten rectangular color-dots, a rectangular color-dot F having ten circular color-dots of a different color placed within its color-field and provided with separate slides, and groups of circular color-dots G, G, H, I, adapted to collectively form number-pictures of ten or less color-dots and having means to vary the color of some of the color-dots.

SPELLING MANUAL. Robert R. Riordon, Washington, D. C., assignor to William E. Stockett & Co., Washington, D. C.



A book consisting of a cover extended at one edge and folded to form a pocket, a plurality of leaves permanently secured or bound at the central fold of the cover and having a weakened line approximately midway between the edges; the pocket of the cover being of a size to receive the half-leaves that may be severed on said weakened line, substantially as described.

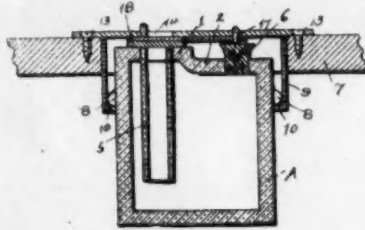
KNIFE AND PENCIL SHARPENER. Lenson Johnson, Chicago, Ill.



In a combined knife and pencil sharpener, a supporting-post having a journal-box mounted thereon, a revoluble shaft mounted in the journal-box, a grindstone and a rotary cutter mounted on one end of the shaft and a pinion cog-wheel mounted on the other end thereof, a pin mounted on the supporting post, an internal cog-wheel revolubly mounted on the pin and in engagement with the pinion cog-wheel, a hollow pencil-holder, one side of said holder having a

longitudinal opening, said holder attached to the journal-box with said opening close to the rotary cutter, and means for revolving the internal cog-wheel substantially as and for the purpose stated.

INK-WELL. John P. Mentzer, Chicago, Ill., assignor to Atkinson & Mentzer, Chicago, Ill.



The combination with a well having projections or lugs 8, 8, of a collar 9 secured to the desk and provided with a flange 10 having notches 11, 11, adapted to receive the lugs or projections 8, 8, a tube 5 extending to nearly the bottom of the well, a cork 6 fitted into an aperture in the top of the well, a cover 12 secured to the desk above the well and having an aperture registering with the tube 5, a swinging stopper adapted to open and close said opening in the cover, a cork provided for an opening in the well, and a pivot-pin for said swinging stopper adapted to rest upon said cork and thus hold the well against rotation, substantially as described.

SCHOOL-DESK CASTING. Michael A. Donohue, Jr., Chicago, Ill.



The above represents the ornamental design for a school desk casting as patented by Michael A. Donohue of Chicago.

## Supplies and Equipments.

Zanesville, O.—The use of slates and sponges in the schools has been done away with, on account of the uncleanness and danger of breeding and spreading diseases. Pencil tablets are to be used in their stead.

The "Perfect" Pencil Pointer is manufactured by the Goodell Company of Antrim, N. H. It is not a trinket but a tool, which has been on the market for some years. The price is \$1.

Catskill, N. Y.—Three Smith Premier Typewriters have been placed in the public school.

Buffalo, N. Y.—Laing's Planetarium has been adopted as a piece of school apparatus and an order has been placed for a number of instruments.

Waynesboro, Pa.—A quantity of school supplies has been bought from the Central School Supply House.

Glens Falls, N. Y.—The Board of Education has bought a Smith Premier typewriter.

West Hoboken, N. J.—The board has placed an order for Laing's Planetarium to supply each school.

Woonsocket, R. I.—The new Earl street school house is to be equipped with desks manufactured by the Chandler Adjustable Chair & Desk Works, Walpole, Mass.

Coffeyville, Kas.—The board has made a pur-

chase of two sets of the new series of Politico-Relief maps manufactured by the Central School Supply House, Chicago. These maps have the endorsement of the U. S. Geographical and Topographical Survey and of the U. S. Coast and Geodetic Survey. A child with these maps can see and feel the mountains and place its fingers in the valleys and gorges, and thereby learn that a river is a natural consequence and flows in a certain direction because the land slopes that way. These maps bring the lofty conceptions of those intellectual giants—Bacon, Varenius, Ritter, Humboldt and Guyot—to the perception of children, instead of relegating them to the domain of scientists, who, through years of persistent and laborious effort have prepared themselves to grapple abstractly with the great and interesting phenomena of nature. By the aid of these maps with their relief features, geography becomes intensely interesting to the child—all map work may be made objective. When a fact is learned its cause is learned at the same time. In this way political and physical features are learned, and both in less time than one alone, because they are remembered by the relationship of cause and effect. Geography has its highest usefulness in revealing the processes by which the differences in climate, soil, production and races of men on the earth arise and develop. These maps eliminate the memorizing of mere details but lead the child to a study of the dynamics of geography, the ever active, living forces of the earth that produce its different climates and soils, and thus favors or retards its occupation by man.

Dillon, Mont.—The Beaverhead County Free High School is the second school building in Montana to be furnished with what is known as the "Fred Frick Electric Self-Winding Program Clock System." The Agricultural College at Bozeman is the other school where the system is used.

The main clock is situated in the hall on the first floor. It is run entirely by electric batteries, having no weights or mainspring at all. When "wound" it runs a year, therefore requires only one "winding" every twelve months. The winding is accomplished by simply pressing a small spring down against a connecting button fifty-nine times. The pendulum is kept swinging by being attracted by small electrodes on either side of it.

There are two secondary clocks connected to the main clock by means of wires. The secondary clocks are situated in the commercial and assembly rooms.

They each have an hour and a minute hand, and every sixty seconds the minute hands jump up a notch, which movement is accomplished by means of an electric current governed entirely by the main clock.

In the main clock is a dial filled with holes, in which small metallic pins can be placed and is so arranged that as the dial moves around the pins make connection with a wire thereby completing the circuit and an electric bell is sounded in nine class and recitation rooms. By placing a pin in every hole in the row around the dial the bells would be sounded every five minutes, and therefore the pins can be so set that the periods for recitations can be made from five minutes to any length of time desired. It is so arranged that the clock automatically skips ringing the bells from four o'clock in the afternoon until nine next morning, or can be set to "ring off" at any hour or "ring on" at any hour desired, and it also skips ringing on Saturday and Sunday, thereby saving the battery.

Somersworth, N. H.—The board has purchased a Crowell physical apparatus. It is a complete laboratory. The entire board witnessed its workings before the purchase was made and were much impressed with it.

(Continued on Subsequent Pages.)



## Among Boards of Education.

Ann Arbor, Mich.—The Board ignored local applicants in filling a vacancy in the teaching corps. A young lady from Texas, who was highly recommended, received the appointment and it has caused considerable ill feeling.

A member who supported the young woman from Texas made the following statement in justification of his action:

"The purpose is mainly to see what benefit can be derived by having a teacher who has been employed in the schools of another state employed in one of our own schools. If the young woman who has been appointed does not suit she can be dismissed with much more grace than one of our own teachers could be."

New developments are constantly manifesting themselves in the educational world. In the great cities especially, where children are deprived of natural opportunities for recreation, efforts are constantly being made to develop the children beyond what is required in the school curriculum. The school authorities of New York city tried the holding of a roof garden concert at one of the school houses, and it proved such a marked success that many others were held throughout the summer. It throws around the children influences that are all good, and these influences take the place of bad ones that surround them on the streets. In New York it has been decided that for schools in the crowded portion of large cities the roof garden is an innovation that is likely to remain.

Cleveland, O.—Trusts are held responsible for a surprising decrease in high school attendance by Principal McLane of the Lincoln High School. There are fewer pupils in the high schools than last year, although there has been an increase of about 3 per cent. in general school attendance.

"The trusts are to blame," says Principal McLane. "They have increased the cost of food and other commodities. With the cost of living increased, parents send their sons and daughters to work to increase the family income to correspond with the greater cost of living. There has not been a general increase in the earnings of clerks and office workers to correspond to the increased cost of living. This has caused a falling off in the attendance at the high schools that should be earnestly considered by friends of education."

Toledo, O.—A movement is on foot to have the board ask all married women who are teaching to resign and to fill their places with unmarried women who are dependent upon their own efforts for a livelihood.

There are among the public school teachers nearly sixty married women who, it is said, are not dependent upon their own resources for a living.

Covington, Ky.—At the dedication of the new school, at Eighteenth and Holman streets, Prof. Frank L. Bristow, superintendent of music in the public schools, sang "In Old Kentucky," adding the following clever verse:

"Our School Board is the purest

In Kentucky.

Our teachers' pay the surest,

In Kentucky.

Our new school is the neatest,

Its furnishings completest,

Its teachers are the sweetest,

In Kentucky.

St. Joseph, Mo.—Military drill and instruction is to be a regular feature in the high school.

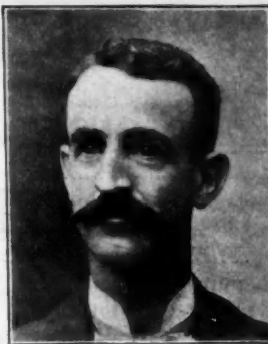
Chicago, Ill.—A relentless crusade is being carried on against parents neglecting the education of their children. Only one notice is served on parents who are indifferent about sending their children to school; when warning is not

heeded warrants are sworn out at the expiration of five days for their arrest under the state law. They are then brought into court and fined.

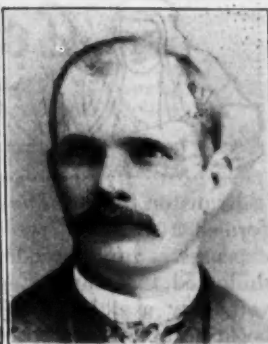
Peoria, Ill.—When the board was about to adopt a new system of writing, Inspector Martin felt the importance of the question, and wished to know what the superintendent, the principals and the teachers thought about it. He said it was no light thing to change the entire system of penmanship, and could not be considered too carefully.

Inspector Donoly expressed it as his opinion that it was none of the teachers' business what books were used; they were hired to teach and use the books prescribed by the board.

These two school board members expressed opposite views on a very important question. Which is the correct one?



WADE R. DENNER,  
Member B'd of Education,  
Girard, O.



GOMER J. JONES,  
Member B'd of Education,  
Girard, O.

## What goes up must come down.

Nothing is more certain than that the use of so-called tonics, stimulants and medicines, which depend upon alcohol for their effect, is injurious to health in the long run.

What goes up must come down, and the elevation of spirits, the temporary exhilaration resulting from a dose of medicine containing alcohol, will certainly be followed in a few hours by a corresponding depression, to relieve which another dose must be taken.

In other words, many liquid patent medicines derive their effect entirely from the alcohol they contain.

Alcohol, and medicines containing it, are temporary stimulants and not in any sense a true tonic. In fact it is doubtful if any medicines or drug is a real tonic.

A true tonic is something which will renew, replenish, build up the exhausted nervous system and wasted tissues of the body, something that will enrich the blood and endow it with the proper proportions of red and white corpuscles which prevent or destroy disease germs. This is what a real tonic should do and no drug or alcoholic stimulant will do it.

The only true tonic in nature is wholesome food, thoroughly digested. Every particle of nervous energy, every minute muscle, fibre and drop of blood is created daily from the food we digest.

The mere eating of food has little to do with the repair of waste tissue, but the perfect digestion of the food eaten has everything to do with it.

The reason so few people have perfect digestion is because from wrong habits of living the stomach has gradually lost the power to secrete the gastric juice, peptones and acids in sufficient quantity.

To cure indigestion and stomach troubles it is necessary to take after meals some harmless preparation which will supply the natural peptone and diastase which every weak stomach lacks, and probably the best preparation of this character is Stuart's Dyspepsia Tablets, which may be found in every drug store and which contain in pleasant, palatable form the wholesome peptone and diastase which nature requires for prompt digestion.

One or two of these excellent tablets taken after meals will prevent souring, fermentation and acidity and insure complete digestion and assimilation.

Stuart's Dyspepsia Tablets are equally valuable for little children as for adults, as they contain nothing harmful or stimulating, but only the natural digestives.

One of Stuart's Dyspepsia Tablets will digest 1,800 grains of meat, eggs or other wholesome food, and they are in every sense a genuine tonic because they bring about in the only natural way a restorative of nerve power, a building up of lost tissue and appetite, in the only way it can be done, by the digestion and assimilation of wholesome food.

## LANGUAGE THROUGH NATURE. LITERATURE AND ART.

By H. Avis Perdue, of the Keith School, Chicago, and Sarah E. Griswold, of the Chicago Normal School, Chicago. With 12 full page and 145 text illustrations. Cloth, 238 pages; 35 cents.

This is the simplest and most beautiful language book yet issued. It is unique in its treatment, and deals with only the simplest facts in formal grammar. This book is a preparation for the first book in any language series, and contains a connected series of lessons in Language, Nature, Literature and Art.

### ESKIMO STORIES.

By Mary E. E. Smith, of the Lewis-Chapman School Chicago. With 18 full-page and 75 text illustrations in half-tone, by Howard V. Brown. Cloth, 189 pages; 35 cents.

For the first and second grades. A delightful volume of Eskimo stories, simply told, and in a graphic style. The reading lessons endeavor to illuminate certain phases of social development, so that they will serve as object lessons.



### VIKING TALES.

By Jennie Hall, of the Francis W. Parker School, Chicago. With 19 full-page plates by Victor R. Landin. Cloth, 206 pages; 35 cts.

For the fourth and fifth grades. Stirring tales of the emigration of the Vikings westward from Norway, which give sequence, reasonableness and significance to the discovery of America.

### HAND-LOOM WEAVING.

A MANUAL FOR TEACHERS. By Mattie Phipps Todd, of the Motley School, Minneapolis, Minn. With an introduction by Alice W. Cooley, formerly Supervisor of Primary Schools, Minneapolis. With 36 half-tone illustrations and 21 patterns. Cloth, 160 pages; \$1.00.

This is the only practical book on the subject and should interest everyone concerned in the training of children. It accompanies any kind of a hand-loom, and one can readily take up weaving with this clear text in hand.

### A NEW CANTERBURY CLASSIC.

THE CRICKET ON THE HEARTH, by Charles Dickens. Edited by George B. Alton, State Inspector of High Schools for Minnesota. With a portrait of Dickens after Lawrence, and 9 full-page illustrations by Gustavus C. Widney. Cloth, 176 pages; 30 cents.

### PREVIOUSLY ISSUED.

RAB AND HIS FRIENDS. Brown-French. 25 cents.

THE GOLD BUG. Poe-Gildemeister. 25 cents.

### STORIES OF MOTHER GOOSE VILLAGE:

By Madge A. Bigham, Principal of the Atlanta Free Kindergarten, Atlanta, Ga. With 135 illustrations in colors by Ella S. Brison. Cloth, 190 pages; 35c.

For the first and second grades. The revival of interest in the teaching of folklore should make these Mother Goose Stories welcome. In these stories the Mother Goose Characters of our childhood are recalled in new situations, and the children will take great pleasure in discovering their old friends in new companionships. The book fills a long unoccupied place among First Readers, and will change the reading lesson from drudgery to sheer delight.

May we send you circulars of our new publications?

Educational  
Publishers.

**RAND, McNALLY & CO.**

Chicago New York  
London Berlin.



Evanston, Ill. The school children have formed a text-book pool to lessen their annual expenses. Superintendent F. W. Nichols promulgated the plan. Each pupil who joins the voluntary association of pupils contributes a book suitable to his grade every year. The superintendent will label and care for these books, and thus from year to year will be kept up a supply ample for class use.

Colaw & Elwood's arithmetics, published by B. F. Johnson Company, have been adopted at Richmond, Va. Leading educators of the country have given exceptionally fine testimonials as to the practical usefulness of these books.

Messrs. Benj. H. Sanborn & Co. announce the publication of a new Atlas of the Geography and History of the Ancient World. This book is to have 33 maps, with a complete index, and, in mechanical execution, the firm makes the claim that it will be equal to their popular Kiepert. Designed for school and college use, it will be bound in paper and in cloth.

Additional names of schools and colleges adopting the Isaac Pitman system and Twentieth Century edition of the "Shorthand Instructor" this fall are: Girls' Technical High School, New York city, under control of the Board of Education; Salt Lake City (Utah) High Schools; Bangor (Maine) High School; Richmond Hill (N. Y.) High School; Lima (Ohio) College; etc., etc.

W. T. Carrington, state superintendent of Missouri, furnishes the following prices, showing a comparison of the cost of text-books in Missouri and Kansas. He informs us that the prices published last month are not correct:

COMPARISON.	MISSOURI.	KANSAS.
First Reader .....	\$ .10½	\$ .10
Second Reader .....	.14½	.17
Third Reader .....	.20	.23
Fourth Reader .....	.30½	.30
Fifth Reader .....	.39½	.40
Speller .....	.13	.10
Elementary Arithmetic .....	.23	.25
Advanced Arithmetic .....	.49	.35
Primary Geography .....	.37	.30
Complete Geography .....	.71	.75
U. S. History .....	.45	.50
Language Lessons .....	.31	.20
Grammar .....	.21½	.35
Physiology .....	.40	.50
Algebra .....	.45	.50
Physical Geography .....	.76	.80

Memphis, Tenn. At a special meeting of the board the back track was taken on its recent or-

der that only new books bearing the printed label "Memphis Edition" should be used in the schools. The order drew a fury of protest and criticism from the press and public.

Belleville, Mo. The board ignored the Trades and Labor Assembly's request to adopt only such school books as bear the union label.

Fond du Lac, Wis. An action to prevent the board from introducing for use in the schools four texts, which were recently adopted by the board and approved by the city council, has been instituted by Ginn & Co.

Buffalo, N. Y. By order of the Health Department every book in the schools has been fumigated. The manner in which it was done involved a large amount of care and plenty of hard work. The books were placed in large boxes, and formaldehyde in the form of candles placed inside. The candle was lighted and the box securely fastened to prevent any air getting inside.

Louisville, Ky. The board furnishes all indigent pupils with free text-books.

The movement projected some time ago for the organization and establishment in some Southern city of a big book plant to be devoted to publishing text books for use in the Southern schools has taken definite shape, and the concern is a go.

In referring to the matter, the Atlanta News of recent days says:

A petition for a charter for the Southern Book Publishing Company has been filed in the clerk's office. The concern is to be capitalized at \$250,000, and the capital stock is to be divided into shares of \$25 each for both common and preferred stock.

The right is asked to increase the stock to not more than \$1,000,000 at any time the stockholders may ask it.

## PROGRESSIVE READERS

NOT ONLY  
WHAT  
TO  
READ  
BUT  
HOW TO  
READ



PERFECT  
NOT  
IN  
ONE  
FEATURE  
BUT  
IN ALL

**BUTLER, SHELTON & COMPANY**  
315 WABASH AVE CHICAGO.

The names of prominent Atlantians appear in the list of incorporators.

The home office and headquarters of the concern will be in Atlanta, but the publishing house has not been definitely located as yet. Both Nashville and New Orleans are making bid for it. As soon as the charter is granted the incorporators will meet and elect officers and directors. Subscription books will be opened in all the Southern states at the same time, probably October 1. It is stated that the concern will build a mammoth plant near the city chosen for it, and have a settlement around it for the operatives to live in.

Avon, Ill. The following is a list of books used in the primary and grammar schools: Baldwin's Readers, Hall's Arithmetic Primer, Hall's Elementary Arithmetic, Metcalf's Elementary English, Baldwin's Primary Lessons in Physiology, Reed's Word Lessons, Milne's Elements of Arithmetic, Baldwin's Essential Lessons in Physiology, Natural Geography, Hall's Complete Arithmetic, Metcalf's English Grammar, Baldwin's Advanced Lessons in Physiology, Natural Advanced Geography. High School—Wentworth's First Steps in Algebra, Metcalf's English Grammar, Baldwin's Advanced Lessons in Physiology, Montgomery's Leading Facts of

NEW UNIQUE AND VERY VALUABLE BOOKS.

## THE MORSE READERS,

Practical Graded Text, 5 Books.

By THOS. M. BALLIET, Supt. Springfield, Mass., and ELLA M. POWERS.

These Books contain all the Features which are required for the BEST MODERN READERS. Sure to give satisfaction.

**MORSE'S EDUCATIONAL SYSTEM** and the **NATURAL MOVEMENT METHOD COPY BOOKS.** (Medial.) Many original Features but thoroughly practical. 20 to 28 Adjustable Copy Slips in the Back of each Book, giving double the Copy Material. Correlated Copy Material carefully Graded and Illustrated.

**THE QUINCY GRAPHIC ARITHMETIC** by W. D. MACINTOSH and FRANK E. PARLIN. Correlation of Reading, Writing, Number, Form, Color, Drawing and Arrangement. A new Departure in teaching Arithmetic.

**RED LETTER DAYS AND RED LETTER FACTS**, by I. FREEMAN HALL, Supt., N. Adams, Mass., and E. D. LENNOX. Remarkably attractive treatment of all Holidays and facts on Nature, Literature, etc. For 3rd and 4th Grades.

See Catalog for Many Other Choice Books.

## THE MORSE COMPANY,

8 Beacon St., BOSTON.

96 Fifth Ave., NEW YORK.

195 Wabash Ave., CHICAGO.



American History, Natural Advanced Geography, Reed's Word Lessons, Milne's Standard Arithmetic, English classics (titles selected), Wentworth's New School Algebra, Mead's Practical Composition and Rhetoric, Forman's First Lessons in Civics, Davis's Physical Geography, Wentworth's Plane Geography, Collar & Daniel's First Latin Book, Myer's General History, Cotton's Practical Zoology, Todd's New Astronomy, Allen & Greenough's Caesar, Avery's Elementary Physics.

Vallejo, Cal. The Trades and Labor Council is demanding legislation that will provide for free text-books in the high schools of the state.

Hartford, Conn. In the district schools free text-books are supplied.

Stevens Point, Wis. The following is a list of books used in the primary and grammar schools: Normal Readers, Normal Elementary Arithmetic, First Steps in English, Natural Elementary Geography, Barnes' Vertical Penmanship, Webster's High School Dictionary, Essentials of Language and Grammar, Normal Advanced Arithmetic, Frye's Complete Geography, Lights to Literature, Book 7, Fiske's U. S. History. High School—Masterpieces of British Literature, Wells' Algebra, Wells' Essentials of Plane and Solid Geometry, Fiske's U. S. History, Meyer's General History, Bergen's Foundations of Botany, Carhart & Chute's Elements of Physics, Joyues-Meissner's German Grammar, Bennett's Latin Grammar, Bennett's Latin Composition, Collar & Daniel's First Latin Book, Kelsey's Caesar, Kelsey's Cicero, Comstock's Virgil, Herrick & Damon's Composition and Rhetoric, Scott & Denny's Elements of English Composition, Mead's "The English Language and Its Grammar," Hallock's History of English Literature, Tarr's First Book Physical Geography and Buell's Psychology.

Appleton's readers, published by the American Book Company, were prepared and compiled by Dr. William T. Harris, the present U. S. commissioner of education, assisted by Prof. Mark Bailey of Yale University, and Prof. Andrew J. Rickoff, formerly superintendent of schools of Cleveland, O. It is unnecessary to say that these are all men of national reputation in the educational field. The readers are distinguished for their high literary quality, the range of the lessons, covering every period of English literature from the Elizabethan period to our own. These readers have been adopted by the Kansas State Text-Book Commission.

**New Adoptions.**

Dell Rapids, S. D. County adoption: Baldwin's Readers, McMaster's Histories, Tarbell's Geographies and Augsburg's Drawing Course.

Richmond, Va. Williams & Rogers' Bookkeeping, Fisher's Chemistry, Wells' Essentials of Algebra, Colaw & Elwood's Arithmetic and Davis' Elementary Physical Geography.

Hall's Arithmetics, published by the Werner School Book Company, adopted recently in the following cities: Detroit, Mich.; Lansing, Mich.; Salt

## WORCESTER'S SCHOOL DICTIONARIES.

Worcester's New Primary Dictionary.....	\$0.50
Worcester's New School Dictionary, Worcester's Comprehensive Dictionary.....	.80
Worcester's Comprehensive Dictionary (with Patent Index).....	1.40
Worcester's Academic Dictionary..	1.65
Worcester's Academic Dictionary (with Patent Index).....	1.50
Worcester's Academic Dictionary (with Patent Index).....	1.75

Lippincott's Gazetteer of the World. New Edition.....	8.00
Chamber's Concise Gazetteer of the World. Half Morocco.....	2.00
Chamber's Biographical Dictionary. Half Morocco.....	2.00

### STANDARD BOOKS OF REFERENCE...

**J. B. LIPPINCOTT COMPANY,**  
Publishers, PHILADELPHIA.

Buffalo, N. Y. Rowe's Commercial and Industrial Bookkeeping, Inductive set published by the Sadler-Rowe Co., adopted for use in the grammar schools.

Akron, O. Werner Geography.

Danvers, Mass. Isaac Pitman "Shorthand Instructor."

South Bend, Ind. Literary Studies, McMaster's Primary History of the United States, Gordy's American Leaders and Heroes and Gordy's Advanced History of the United States.

Lansdowne, Pa. Isaac Pitman "Shorthand Instructor."

Rochester, N. Y. Scott & Denny's Elementary English.

**The Value of Charcoal.**

Few People Know How Useful it is in Preserving Health and Beauty.

Nearly everybody knows that charcoal is the safest and most efficient disinfectant and purifier in nature, but few realize its value when taken into the human system for the same cleansing purpose.

Charcoal is a remedy that the more you take of it the better; it is not a drug at all, but simply absorbs the gases and impurities always present in the stomach and intestines and carries them out of the system.

Charcoal sweetens the breath after smoking, drinking or after eating onions and other odorous vegetables.

Charcoal effectually clears and improves the complexion, it whitens the teeth and further acts as a natural and eminently safe cathartic.

It absorbs the injurious gases which collect in the stomach and bowels; it disinfects the mouth and throat from the poison of catarrh.

All druggists sell charcoal in one form or another, but probably the best charcoal and the most for the money is in Stuart's Absorbent Lozenges; they are composed of the finest powdered Willow charcoal, and other harmless antiseptics in tablet form or rather in the form of large, pleasant tasting lozenges, the charcoal being mixed with honey.

The daily use of these lozenges will soon tell in a much improved condition of the general health, better complexion, sweeter breath and purer blood, and the beauty of it is, that no possible harm can result from their continued use, but, on the contrary, great benefit.

A Buffalo physician in speaking of the benefits of charcoal says: "I advise Stuart's Absorbent Lozenges to all patients suffering from gas in stomach and bowels, and to clear the complexion and purify the breath, mouth and throat; I also believe the liver is greatly benefited by the daily use of them; they cost but twenty-five cents a box at drug stores, and although in some sense a patent preparation, yet I believe I get more and better charcoal in Stuart's Absorbent Lozenges than in any of the ordinary charcoal tablets."

## Would You Like to See

**The Only Attractive Spelling  
Book ever Published? . . .**

**A New Book on a New Plan**

### SPELLING AND WORD BUILDING

By EUGENE BOUTON

**Word Studies—A drill in words as individuals.**

**Word Building—A phonic drill.**

Over 250 illustrations make the book attractive and serve as a basis for language lessons and dictation exercises. Many of the pictures are in outline and can be reproduced by the children, thus impressing the meaning of the word and furnishing Busy Work for the school hours.

Cloth, 124 pages, retail price, 25 cents. Exchange price, 15 cents. Sample copies sent for examination upon receipt of the exchange price.

### UNIVERSITY PUBLISHING COMPANY

27-29 West 23rd St., New York.

120 Summer St., Boston.

714-716 Canal St., New Orleans.

**Supplies and Equipments.**

Waterloo, Ia.—In the east side high school the third story has been finished off and the three new rooms have been fitted up with desks known as the "New Oxford" pattern, which are made so that they can be adjusted to suit the size of the pupils.

Cadillac, Mich.—The board has purchased Laing's Planetarium for the various schools, and they are giving the best of satisfaction.

Berkeley, Cal.—Two Smith Premier typewriters have been bought for use in the Public Commercial School.

Dallas, Tex.—President Jalonick protested at a recent board meeting against the use of buckets to supply drinking water for the children, claiming that it was filthy and unhealthy. The buckets catch all the dust, he said, and asked that tanks be placed in the various schools. He carried his point.

St. Joseph, Mo.—Apparatus for the physical, biological and chemical departments in the high school were bought from the Central Scientific Company of Chicago.

Baltimore, Md.—The J. W. Bond Company was awarded the contract for supplying about fifty-four tons of paper to the schools.

Philadelphia, Pa.—The board has completed arrangements by which anthracite coal will be imported from England to furnish fuel for the public schools during the winter.

Honolulu, H. I.—Four Smith Premier typewriters have been bought by the Board of Education.

Exeter, N. H.—The new Winter street school is being equipped with desks of the Chandler make, and with blackboards, the slate for which was the best to be had from the Slatington-Bangor quarries of Slatington, Pa.

An ingenious card device, for displaying the colors of Dixon's Silica-Graphite Paint in such manner as will permit of an exact idea of each color, is being issued by the Joseph Dixon Crucible Company, Jersey City, N. J. The color chart carries with it suggestions as to the class of construction that can be protected with this paint, also instructions as to best methods of applying protective paint. The new color chart

can be secured by request to the Joseph Dixon Crucible Company, Jersey City, N. J.

Worcester, Mass. Over \$4,000 per year is spent on pencils and paper.

Orange, Mass. Two Smith Premier Typewriters have been bought for public schools.

The Remington Typewriter has been officially adopted by the Department of Education of the Island of Porto Rico for exclusive use in the public schools which Uncle Sam is establishing all over the island. The manufacturers have received an initial order for twenty-five machines. The Remington is widely used and has a reputation for durability and efficiency.

The Philadelphia Board of Education, which had given or was about to give a large order for Welsh coal to be imported for the use of the schools, has been induced to take Pennsylvania coal instead. This is due to a special offer made by President Baer of the Reading road, who named a price much below the current quotations. But what about the schools in other cities? Does Mr. Baer think they are any less worthy of consideration?

Sanford, Me. Hygienic drinking fountains have been installed in the newly-erected high school, thus doing away with drinking cups.

Rockland, Mass. Have purchased two Smith Premier Typewriters for use in the public schools.

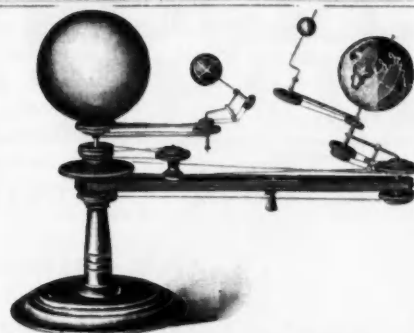
Milwaukee, Wis. The desks placed in the new Tenth District Primary School No. 2 were manufactured by Thomas Kane & Co. works.

New York City. Alarmed at the enormous increase shown in the advance figures for the educational budget for 1903, the president of the board has instructed each committee to reduce

its requisitions to an amount to cover the bare necessities for school work, and the budget is being revised to bring it within the \$16,000,000 which will be available. In future the children in the schools will be obliged to furnish blank and composition books, penholders and other little supplies.

During the months of August and September the Columbia School Supply Company, of Indianapolis,

## LAING'S PLANETARIUM



**Endorsed and  
Praised by  
Leading  
Educators.**

**For the Practical Demonstration of the Facts of Mathematical Geography. Solves the problems of the Seasons, Day's Length, Moon's Phases, Zodiac, etc.**

School Boards and Teachers will recognize the fact that the beginning of the school year is the time to equip the school with every appliance that will aid in good work. Begin the year with the assistance afforded by Laing's Planetarium.

*"Taught in the Twinkling of an Eye."*

CARO PUBLIC SCHOOLS

F. L. EVANS, Superintendent.

Caro, Mich., Oct. 25th, 1901.

To Those Interested:

I have had the privilege of giving Laing's Planetarium a thorough examination, following personally the directions given for its many admirable uses. It is a marvelous work of ingenuity and mechanism and fulfils its purpose better than anything of the kind I have ever seen. Its lightness, simplicity, and practicality are commendable features, and as a time saver in the study of mathematical geography I doubt not that it will pay for itself time and again. Long, arduous explanations, whose comprehension requires such stretches of the imagination, will now no longer be necessary. Conditions that heretofore have required years of study are taught by the planetarium in almost the twinkling of an eye. It affords a wonderful stride in a much neglected science. We have had this piece of apparatus in our school for one month and every grade is enthusiastic in its praise of it. Teachers are handling it with comparative ease. We anticipate far-reaching results in its use.

Very truly,  
F. L. EVANS.

*"Facts in Mathematical Geography" and "Supplement"*

BY A. LAING.

Illustrated: pp. 91. **Price 50 Cents.** For a limited time we offer these two valuable aids to the study of mathematical geography for **25 Cents.** Descriptive circulars of Laing's Planetarium mailed free.

## LAING PLANETARIUM CO.

Dept. E., Detroit, Mich.

lis, received orders for sixty-five of their complete outfits for physical laboratories. Among those ordering are the following: Central High School, Minneapolis, Minn.; Owosso, Mich.; Wilmington, Fostoria and Napoleon, O.; Anaconda, Mont.; Great Bend, Kan.; Wallace, Idaho; Montpelier, Vt.; and Ligonier, Ind.; also one at Strassburg, Germany.

Rochester, N. Y. The law that governs the school system places the expenditure of school funds wholly in the control of the Board of Education, thus fixing the responsibility plainly upon it, and removing school matters from the exigencies and passions of party politics, to which the Common Council is subjected. In addition, it establishes a minimum charge of \$25 per pupil which the city shall pay in support of its public schools.

## Did You Ever Use Press Clippings?

**A Daily Press Clipping Service.**

is valuable to you if you want to know what is being printed on any particular subject in the Newspapers and Magazines of America.

It costs you very little and saves you time and wearying research.

Business men the world over are finding our daily clipping service very profitable—we keep them posted of new firms being established that can use their goods, what their competitors are doing, etc.

Drop us a line and we will explain what we can do for YOU, with free booklet about the uses of press clippings, prices, etc.

**UNITED STATES PRESS CLIPPING BUREAU,**  
153 LaSalle Street, Chicago, Ill.

### WANTED: IDEAS.

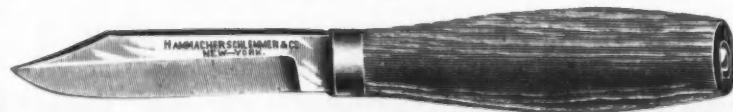
Models, Patterns, etc., for an Adjustable School Desk. Will pay liberally for right article. Address "School Desks," care AMERICAN SCHOOL BOARD JOURNAL, Milwaukee, Wis.

### WANTED AGENTS

Wideawake, thoroughly reliable, hustling agents, 30 to 40 years of age, who thoroughly understand school book business in the west. Apply with reference.

**A. W. POLLARD, Treas.,**

96 Fifth Avenue, New York.



**It's the**

## CUTTING QUALITY THICK BACK and LONG TANG and PERFECT SHAPE

that make our Sloyd Knives far superior to any others made. Features worked out by long experience and most careful experimenting.

Special prices to schools. Send for circulars. Mention this journal.

## Hammacher, Schlemmer & Co.,

New York City since 1848.





MISS IZONA M. MANKIN,  
School Supply Agent.

Miss Izona M. Mankin, whose portrait is presented herewith, succeeds her sister, Mrs. Ida T. Bush, in the school supply business. The latter had distinguished herself as a school supply agent, but Cupid captured her in the prime of her reputation and she became Mrs. Bush, and installed her sister as her successor.

Miss Izona Mankin makes her headquarters at 81 Lombard Building, Indianapolis. She travels over the state of Indiana and has already demonstrated her ability as a saleslady.

#### Heating and Ventilating.

In addition to the purity and warmth of the air supply in a school room its humidity should be considered. It is a well-known fact that owing to the evaporation of the body perspiration in a dry atmosphere, a person may become chilled in a temperature of 75 degrees, whereas in an atmosphere of 75 degrees humidity, he is comfortable at 65 degrees. The introduction of the required amount of moisture into the air of a room is not necessarily a difficult matter. When the heat is supplied by a furnace a broad pan of water placed on the dome of the firepot where the heat is sufficient to keep the water hot, and to evaporate a pailful or more daily, is sufficient. The water pans ordinarily supplied with furnaces are too small and too far from the fire to admit sufficient evaporation. When the heat is supplied by steam radiators, the steam may at times be allowed to escape; or, if this is impossible, broad, shallow pans of warm water may be placed on the radiators or heavy, wet cloths hung behind them. The amount of moisture present in the atmosphere at any one time may be easily determined by means of the wet and dry bulb thermometers, the former being simply an ordinary thermometer with a wet

cloth tied around the bulb. There should not be a difference of more than 5 to 7 degrees between the readings of the two thermometers. The value of pure, warm and sufficiently moist air to the developing child cannot be overestimated. Its presence means vigor and strength of body; its absence may mean head, throat and eye affections, and the impaired tone of the entire system.

Fond du Lac, Wis. Heating contract for the Lincoln school awarded to the American Foundry Company.

Woonsocket, R. I. Contract for heating and ventilating the Earl street school house was secured by the Fuller & Warren Co., Boston, Mass.

Chippewa Falls, Wis. The contract for heating the high school building awarded to the Moore Heating Co.

Poor sanitary arrangements, ill-lighted school rooms and poor ventilation are the causes for many serious ailments among school children.

The heating and ventilating system manufactured by the Peck-Williamson Heating & Ventilating Co., Cincinnati, O., has many excellent features. Reports from School Boards were the system has been introduced are very favorable as to its success. School Boards about to erect new school buildings would do well to write this firm for information before awarding contracts.

#### Building and Finance.

Modern school architecture has advanced to a stage of development quite proportionate to the advancement of the modern school itself. The new buildings erected throughout the country during the present year have in nearly all cases been designed according to plans embodying novel ideas. The greatest possible attention is paid these days to proper methods of ventilation, of heating and of lighting. There must be easy means of access and exit. Fire protection must be adequate. Attention must also be paid to acoustic properties in the school rooms, and at the same time the walls must be made

Established 1865.

# C. HENNECKE Co.,

Formators,

MILWAUKEE, WIS.

## Plaster Cast Studies

For Drawing and Modeling; Reproductions from Antique, Mediaeval and Modern Sculpture, etc., for

## School Room Decoration.

These Art Productions have never failed to receive the highest award when placed in competition with other makes.

## Illustrated Catalogue.

that no sounds will pass from one room to another.

Boston, Mass. The portable schoolhouses in all parts of the city now number eighty-six, an increase of thirty-two since the close of the previous school year. They are a very practical resource to span the intervals which cover the slower processes of permanent construction of those enduring edifices which are monuments for popular education.

Quincy, Ill. A committee visited neighboring cities to secure ideas as to what constitutes a modern school building.

Americus, Ga. The school board prohibits children, whose parents have not fully paid their street and poll taxes, from attending school.

New Haven, Conn. Portable schoolhouses are receiving the consideration of the board as a means of accommodating children, who on account of the crowded condition of the schools, at present, are unable to gain admission.

#### Recognition Comes From Abroad.

The following letter was received recently by the Columbia School Supply Company of Indianapolis, Ind:

COLUMBIA SCHOOL SUPPLY CO.,  
INDIANAPOLIS, IND., U. S. A.

GENTLEMEN: Please ship me by American Express one of your latest Model Crowell Physical Apparatus Cabinets, to be used in the American College. I enclose herewith my check for one hundred dollars, advance payment, and will send you balance on receipt of the cabinet in good condition. I regard your apparatus as the best means I know of on either side of the Atlantic for teaching Elementary Physics.

Yours truly,

DAVID K. GOSS,

School for American Boys, Strassburg in Alsace.



- I**f there is an Increase in your School Population  
 you desire to purchase Additional School Aids  
 " your Books Wear Out or become Soiled or Filthy  
 " there is any Need to Inculcate in the Minds of the Scholars the necessity of  
 taking Proper Care of Public Property  
 " Cleanliness and Hygiene are Subjects of Importance to you  
 " The Reduction of the Annual Outlay for Replenishing New Books is of Vital  
 Importance  
 " The Promoting of Economy, Cleanliness and Hygiene is Progressive

**All the More Reason why You Should Adopt, Use and  
Continue to Use the**

**"Holden System for Preserving Books"**

Comprising BOOK COVERS, SELF BINDERS AND TRANSPARENT PAPER.

Samples Free. HOLDEN PATENT BOOK COVER CO., P. O. Box 643, Springfield, Mass.



# List of POPULAR SCHOOL AND COLLEGE

# Text Books



## ABBREVIATIONS.

American  
Appleton  
Barnes  
Bowen  
Butler  
Central  
Flanagan  
Ginn  
Heath  
Houghton  
Irish  
Johnson  
Krone  
Lain  
Lippincott  
Longmans  
Maynard  
Merriam  
Morse  
Macmillan  
McNally  
Myers  
Pitman  
Powers  
Prang  
Sadler  
Sanborn  
Scott  
Scribner  
Silver  
Sower  
Thompson  
University  
Western  
Werner  
Woodward

American Book Co. .... Cincinnati, New York, Chicago.  
D. Appleton & Co. .... New York, Boston, Chicago.  
A. J. Barnes Publishing Co. .... St. Louis, Mo.  
Bowen-Merrill Co. .... Indianapolis  
Butler, Sheldon & Co. .... Philadelphia, New York, Chicago.  
Central School Supply House. .... Chicago, New York.  
A. Flanagan Co. .... Chicago.  
Ginn & Co. .... Boston, New York, Chicago.  
D. C. Heath & Co. .... Boston, New York, Chicago.  
Houghton, Mifflin & Co. .... Boston, New York, Chicago.  
Frank V. Irish. .... Chicago.  
B. F. Johnson Publishing Co. .... Richmond, Va.  
Krone Bros. .... New York.  
Lain Planetarium Co. .... Dept. E, Detroit, Mich.  
J. B. Lippincott Co. .... Philadelphia.  
Longmans, Green & Co. .... New York.  
Maynard, Merrill & Co. .... New York, Chicago.  
G. & C. Merriam Co. .... Springfield, Mass.  
The Morse Co. .... New York, Chicago.  
The Macmillan Co. .... New York, Chicago.  
Rand-McNally & Co. .... Chicago.  
R. L. Myers & Co. .... Harrisburg, Pa.  
Isaac Pitman & Sons. .... New York.  
Powers & Lyon. .... Chicago, New York.  
Prang Educational Co. .... Boston, New York, Chicago.  
Sadler-Rowe Co. .... Baltimore.  
Benj. H. Sanborn & Co. .... Boston, Chicago.  
Scott, Foresman & Co. .... Chicago, New York.  
Charles Scribner's Sons. .... New York, Boston, Chicago.  
Silver, Burdett & Co. .... Boston, New York, Chicago.  
Christopher Sower Co. .... Philadelphia.  
Thompson, Brown & Co. .... Boston, Chicago.  
University Publishing Co. .... New York, New Orleans.  
Western Publishing House. .... Chicago.  
Werner School Book Co. .... Chicago, New York, Boston.  
Woodward & Tiernan Ptg. Co. .... St. Louis, Mo.

## ALGEBRA.

Milne Series. .... American  
White's Gram school. ....  
Downey's Higher. ....  
Slaught's Elements. .... Appleton  
" Principles. .... Butler  
Hull's. ....  
Sheldon Series. ....  
Olney's Series. .... Ginn  
Wentworth Series. .... Ginn  
Beman & Smith. ....  
Wells' Series. .... Heath  
Bowser's Series. ....  
McCurdy's Drill Books. ....  
Freeland's. .... Longmans  
Hall & Knights. .... Macmillan  
Thompson's New. .... Maynard  
Durrell & Robbins Series. ....

Collins' ..... Myers  
First Book ..... Scott  
Lilly's Series ..... Silver  
Brooks' ..... Sower  
Beginners' ..... Thompson  
Bradbury Series .....  
Fairbanks & Hebdon. ....  
Sanford's Ele. .... University  
Nicholson's Ele. ....  
Venable Series .....  
Giffin's Gram. Sch. .... Werner

## ARITHMETIC.

Milne Series. .... American  
Bailey Series. ....  
Bailey-Wiemer Series. ....  
Baird's .....  
Hornbrook's .....  
White's .....  
Springer's Com. .... Appleton  
New Franklin Series. .... Butler  
Sheldon's Series .....  
Stoddard's New Int. ....  
Hull's .....  
New American .....  
Now Higher ..... Flanagan  
" Practical. ....  
Wentworth Series ..... Ginn  
Speer's .....  
Beman & Smith. ....  
Prince's .....  
Walsh's Series ..... Heath  
Eaton's .....  
Atwood's Series .....  
Sutton & Kimbrough's. ....  
White's Series .....  
Colburn's ..... Houghton  
Colfax & Elwood's. .... Johnson  
Carr's .....  
Lippincott's ..... Lippincott  
McLellan & Ames' Series. ....  
Thompson's 1st Les. Maynard  
Thompson's Complete. ....  
Carroll's Series ..... Morse  
Durrell & Robbins Ser. Myers  
Practical Mensuration. ....  
Pearl Mental .....  
New Business ..... Powers  
Practical .....  
Counting House Arithmetic. .... Sadler  
Commercial Arithmetic, College Ed. ....  
Commercial Arithmetic, School Ed. ....  
Essentials of Arithm. ....  
Swift & Reliable Short-hand .....  
Richardson's Commercial Law .....  
Bofield's Ele. .... Scott  
Brooks' Rational .....  
Bofield's .....  
Normal Course ..... Silver  
Pierce's Series .....  
New Complete .....  
Brooks' Series ..... Sower

## ART.

Riverside Series. .... Houghton  
VanDyke's Painting Longmans  
Hamlin's Architecture. ....  
Marquand & Frothingham's Sculpture. ....  
Abbott-Gaskell's Outlines. .... Silver

## ASTRONOMY.

Todd's New ..... American  
Bowen's .....  
Steele's .....  
Newcomb's .....  
Comstock ..... Appleton  
Young's ..... Ginn  
Sharpless & Phillips ..... Lippincott  
Ball's Elements. .... Macmillan  
Howe's Elements. .... Silver  
Peck's Constellations. ....

## BIOLOGY.

Dodge's ..... American  
Boyer's ..... Heath  
Parker's ..... Macmillan  
Biddood's ..... Longmans

## BOOKKEEPING.

Bryant & Stratton's American  
Electric .....  
Palmer's ..... Butler  
Mayhew's .....  
Gay's ..... Ginn  
Shaw's Ele. .... Heath  
Seavy's Practical .....  
Montgomery's Mod. .... Merrill  
Powers' Single Entry. .... Powers  
" First Less .....  
Complete Accountant. ....  
Office Methods .....  
Comm. Industrial. .... Sadler  
Inductive Set .....  
Hall's Art of Accounts. .... Silver  
Mayhew's Series .....  
Lyte's Book ..... Sower  
Meservey's ..... Thompson  
American Accountant .....  
Werner ..... University  
Werner ..... Werner

## BUSINESS FORMS.

Eaton's Series ..... American  
Ward's Series .....  
Merrill's ..... Merrill  
Twenty Lessons in. .... Powers  
Powers' .....  
Apgar's Analysis. .... American  
Coulter ..... Appleton  
Boyer's Tablets ..... Central  
Bergen's ..... Ginn  
Gray's .....  
Wood's .....  
Spalding's ..... Heath  
Bailey's Lessons ..... Macmillan  
Bigelow's Plant Analysis ..... Western

## BOTANY.

Cooley's Text Book. .... American  
Storer & Lindsay's. ....  
Kaiser's Lab .....  
Stoddard's Analysis .....  
Irish's Analysis .....  
Nichol's Graded Les. Thompson  
Cogswell, Lessons .....  
Bradbury's Eaton's .....  
Nicholson's Series. .... University  
Sanford's Series .....  
Venable's Series .....  
Hall's ..... Werner  
Werner's .....  
Hall's Arith Primer. .... Woodward  
Woodward Series. .... Woodward

## CIVICS.

Forman's ..... American  
McClure's .....  
Andrew's Manual .....  
Practical Civics. .... Flanagan  
Seelye's ..... Ginn  
Dole's Am. Citizen. .... Heath  
" The Young Cit. ....  
Wilson's The State .....  
Pudson's Young Am. Maynard  
Jones & Sanford's Gov't. ....  
In State and Nation. ....  
Martin's Hints ..... Scribner  
Peterman's ..... American  
Willoughby's Am. Cit. ....  
Moses ..... Appleton  
Donnan's Our Gov't. .... Bowen  
Macy's ..... Ginn  
Davis' .....  
Plickinger's ..... Heath  
John Fliske's ..... Houghton  
Schwinn & Stevenson's .....  
Blocher's Ark. .... Lippincott  
Curry's Confed. States .....  
Young's ..... Maynard  
Mowry's Elements. .... Silver  
Mowry's Studies. ....  
Finger's Lowry's. .... University  
Hinsdale's Am. Gov. .... Werner

## CIVIL GOVERNMENT.

Peterman's ..... American  
Willoughby's Am. Cit. ....  
Moses ..... Appleton  
Donnan's Our Gov't. .... Bowen  
Macy's ..... Ginn  
Davis' .....  
Plickinger's ..... Heath  
John Fliske's ..... Houghton  
Schwinn & Stevenson's .....  
Blocher's Ark. .... Lippincott  
Curry's Confed. States .....  
Young's ..... Maynard  
Mowry's Elements. .... Silver  
Mowry's Studies. ....  
Finger's Lowry's. .... University  
Hinsdale's Am. Gov. .... Werner

## COMMERCIAL LAW.

Spencer's Elements. .... Bowen

## COMMERCIAL HISTORY.

Marchant's Com'l Hist. .... Pitman

## COMPOSITION AND RHETORIC.

Buehler's ..... American  
Haven's .....  
Hill's .....  
Swinton's School. ....  
Butler's School. ....  
Quackenbos' Pract. ....  
Waddy's .....  
New Franklin Series. .... Butler  
Sheldon's Series .....  
Hill's Elements (D. J.) .....  
Hill's Science (D. J.) .....  
Peterson's First .....  
Steps in ..... Flanagan

Genung's Series. .... Ginn  
Cairn's Intro. ....  
William's Practical. .... Heath  
Strang's Ex. in Eng. ....  
Pearson's Comp. ....  
Spalding's Ele. Comp. ....  
Lewis' Intro. Rhetoric. ....  
Webster's English Comp. ....  
and Literature. .... Houghton  
Longmans' ..... Longmans  
Baldwin's .....  
Collard's Beginners. .... Maynard  
Le Row's Practical. ....  
Kellogg's Book on .....  
Carpenter's H. Sch: First and Second H. Sch. ....  
Course ..... Macmillan  
Carpenter's Advance. ....  
Lewis' Writing Eng. ....  
Lewis' Manuals (2). ....  
Irish's Orthog. & Or-thoepy ..... Irish  
A Modern ..... Sanborn  
Herrick & Damon ..... Scott  
Welsh's Composition. .... Silver  
Copeland & Rideout's .....  
Freshman English. ....  
New Normal ..... Werner  
Columbian .....  
COPY BOOKS.  
(See Penmanship.)  
DICTIONARIES.  
Webster's School. .... American  
Harper's Latin .....  
Lewis' Latin .....  
Harper's Classical .....  
Liddell & Scott's Greek. .... Ginn  
Worcester ..... Lippincott  
Blackley & Friedlander's .....  
German-Eng. .... Longmans  
Longmans' Pocket .....  
Contanseau's Fr.-Eng. ....  
" Pocket, Fr.-Eng. ....  
Webster's International .....  
" Collegiate ..... Merriam  
Brown & Haldeman .....  
Clarendon ..... University

## COPY BOOKS.

(See Penmanship.)

## DICTIONARIES.

Webster's School. .... American  
Harper's Latin .....  
Lewis' Latin .....  
Harper's Classical .....  
Liddell & Scott's Greek. .... Ginn  
Worcester ..... Lippincott  
Blackley & Friedlander's .....  
German-Eng. .... Longmans  
Longmans' Pocket .....  
Contanseau's Fr.-Eng. ....  
" Pocket, Fr.-Eng. ....  
Webster's International .....  
" Collegiate ..... Merriam  
Brown & Haldeman .....  
Clarendon ..... University

## DRAWING.

Eclectic Series. .... American  
Tracy's .....  
National Course ..... Ginn  
Thompson's Aesthetic Ser. ....  
" Mechanical Ser. .... Heath  
Thompson's N. Short Course .....  
Anthony's Mechanical. ....  
" Machine .....  
" Essentials of .....  
" Gearing .....  
Daniels' Lettering. ....  
Bartholomew's Free .....  
Natural Drawing Ser. 6 .....  
Paragon ..... Krone  
Krone's Industrial. ....  
" Map Drawing. ....  
" Sheets .....  
Morris' Teaching of Longmans  
" Geometrical .....  
Wilson's Geometrical. ....  
Halle's Prac. Draw. Maynard  
Numbers ..... Potter  
Elementary Course in Arc .....  
Instruction ..... Prang  
Primary 1st Year (Manual) .....  
Primary 2d Year (Manual) .....  
Drawing Books (1-12) or (1-6) .....  
Manuals for Books (6). ....  
Course for Graded .....  
Paper Folding and Cutting. ....  
Ball .....  
Schools ..... Prang  
Drawing Books (1-6). ....  
Manual (1). ....  
Course for Ungraded .....  
Schools .....  
Drawing Book (1). ....  
Manual (1). ....  
A Course in Water .....  
Color .....  
Mechanical Drawing. ....  
Rupillion .....  
How to Enjoy Pictures. ....  
Emery .....  
Egypt. Perry .....  
Pencil Sketches, Bar-tholomew .....  
Parts I-III. ....  
Supplements A-B. ....  
Landscape Drawing. Bar-tholomew .....  
Sets 1-3. ....  
Water Colors .....  
Pictures (Walls) .....  
Normal Course .....  
Pictures (Class Study). ....  
Hand ..... University  
Eclectic Industrial .....  
ELOCUTION.  
Hull's Practical ..... Appleton  
Guntton .....  
Ely's Outlines. .... Macmillan  
Andrews' Institutes. .... Silver  
Bullock's Introduction. ....  
Kidd's ..... American  
Murdoch's .....  
Southwick's .....  
Bailey's Essen. of .....  
Reading ..... Butler

## ELOCUTION.

Hull's Practical ..... Appleton  
Guntton .....  
Ely's Outlines. .... Macmillan  
Andrews' Institutes. .... Silver  
Bullock's Introduction. ....  
Kidd's ..... American  
Murdoch's .....  
Southwick's .....  
Bailey's Essen. of .....  
Reading ..... Butler

Fulton's ..... Ginn  
Holyoak's .....  
Trimble's New .....  
Hyde's School Speaker. ....  
Smith's Reading and Speaking ..... Heath  
Burrell's Clear Speaking and good Reading ..... Longmans

## ENGLISH LITERATURE.

Alden's Studies. .... American  
Brook's English. ....  
Blaisdell's .....  
Brooke's English. ....  
Halleck's English. ....  
Irish's Lit. Gem-Book. ....  
" Treasured Thoughts .....  
Matthew's American. ....  
McNeill & Lynch's .....  
Watkin's American .....  
Eclectic Classics .....  
Rolle's Classics .....  
Twentieth Century Series. ....  
Choice Readings ..... Appleton  
Sel. from Am. Auth. ....  
Sheldon's Readers .....  
Shaw's Series .....  
" New History of Eng. and Am. Lit. ....  
The Great Writers. ....  
Tyler's Manual of .....  
Shaw-Buckus Outl ..... Ginn  
Athenaeum Press Series. ....  
Gayley's .....  
Hudson's Shakespeare. ....  
Minto's .....  
Lewis' Beginnings .....  
Heath's Classics ..... Heath  
Melkilejohn's His. of .....  
Corson's Browning .....  
" Shakespeare .....  
Arden Shakespeare .....  
Hawthorne & Lemmon's .....  
Am. Lit. ....  
Heart of Oak Books. ....  
Bronson's American .....  
Longman's Eng. Classics .....  
Richardson's Amer. Houghton  
Masterpieces Brit. Lit. ....  
Riverside Series .....  
Masterpieces Am. Lit. ....  
Modern Classics .....  
American Poems .....  
Longman's Eng. Lit. ....  
Arnold's Manual of .....  
College Requirements. ....  
Irish's Am. & British .....  
Authors ..... Irish  
Riverside School Library .....  
Longmans .....  
Brooke's ..... Macmillan  
Bates' Am. Lit. ....  
Carpenter's Am. Prose. ....  
George's Chaucer to .....  
Arnold .....  
Brooke-Carpenter .....  
Lights to ..... McNally  
Maynard's Series. .... Maynard  
Kellogg on .....  
Chittenden's Ele. .... Scott  
Lloyd's Little Folks. ....  
Lake's Eng. Classics .....  
Bass' Shakespeare ..... Scribner  
Chaucer .....  
Labban's Essays .....  
A Study of Eng. Prose. ....  
Silver Series of Classics .....  
Pattee's American Liter-ature .....  
" Reading .....  
Courses .....  
Pattee's Foundations. ....  
Westlake's ..... Sower  
Golden Rod Books. University  
Standard Lit. Series. ....  
Johnston & Brown's .....  
Lakeside Literature Series ..... Western

## FRENCH.

Sym's ..... American  
Mazzarelli's .....  
Bacon's .....  
Nichols' ..... Longmans  
Gore's Plane & Solid. ....  
Estill's .....  
Murray's Trig .....  
Noetling's Elements of. ....  
Edward's Geom. .... Macmillan  
Lock-Miller's Trig. ....  
Loney's Trig. ....  
Pattee's Plane Geom. .... Silver  
Walsh's Trigonometry. ....  
Brooks' Plane & Solid. .... Sower  
" P. & S. Trig. ....  
Bradbury's Ele. Pl. Thompson  
" Trig. ....  
" Geom. & Trig. ....  
" Acad. Plane .....  
" Acad. P. & S. ....  
" Trig. & Survey. .... University  
Venable's ..... University  
GERMAN.  
Keller's Series ..... American  
Twentieth Century Series .....  
Schmitz's Series ..... Butler  
Harris' Comp .....  
Huss's Reader .....  
Spanholz's Reader .....  
Joyne's Reader .....  
Nix Reader .....  
Int. Modern Series. .... Ginn  
Collar's Eysenbach. ....

La France ..... Maynard  
Anecdotes Nouvelles .....  
Colloquial Convers. .... Pitman  
Pitman's .....  
Illa. First Reader and De Borde's Ele. .... Scott  
Donay's Reader ..... Silver  
Duffet's Method ..... Sower

## GEOGRAPHY.

Natural Elementary American  
" Advance .....  
Harper's (2) .....  
Swinton's (2) .....  
Eclectic (2) .....  
Appleton's ..... Appleton  
Butler's Series ..... Butler  
Barnes' (2) .....  
Warren's .....  
Mitchell's .....  
Morton's Ele. ....  
Morton's Advanced .....  
Fry's ..... Ginn  
Hennings, Va. .... Johnson  
Longman's ..... Longmans  
Chisholm's .....  
Tarr & McMurray's (3) ..... Macmillan  
Carroll's Series ..... Morse  
Pitman's Commercial Pitman  
Instructive Geography. .... Potter  
Redway's G. of N. Y. ....  
Maury's ..... University  
Werner ..... Werner  
Tarbell's .....  
(Physical.) .....  
Hinman's ..... American  
Montell's .....  
Guyot's .....  
Redway's Elementary ..... Scribner  
Davis' ..... Ginn  
Dodge's Reader ..... Longmans  
Tarr's ..... Macmillan  
(Commercial.) .....  
Adams' ..... Appleton  
Butler's ..... Butler  
Warner's .....  
Dana's .....  
McFarland's ..... Sadler

## MATHEMATICAL.

Facts in Mathematical

Geog ..... Lain

Supplements to above

## GEOLOGY.

Le Contes ..... American  
Davis' .....  
Brigham ..... Appleton  
Shaler's First B. in. .... Heath  
Tarr's Elements. .... Macmillan  
Scott's Introduction. ....  
Geographical Portfol. Scribner  
Hand Book-Prac. ....  
Gove's .....  
Holliprin's Earth. .... Silver

## GEOMETRY AND TRIG.

Crockett's Trig ..... American  
Campbell's Geom. ....  
Hornbrook's Geom. ....  
Milne's Geom. ....  
Phillip & Fisher's Geom. ....  
Phillips & Strong's Trig .....  
White's Geom. ....  
White's Trig .....  
Slaught's Plane Geom. ....  
" Solid Geom. ....  
" Comp. Sch. Geom. ....  
Olney's Series. .... Butler  
Hull's Ele. Geom. ....  
Wentworth Series. .... Ginn  
Beman & Smith. ....  
Bailey & Woods' .....  
Wheeler's Trig. ....  
Durflee's Plane Trig. ....  
Nichols' Trig. ....  
Wells' Series ..... Heath  
Bower's Series .....  
Hunt's Gram. School .....  
Geometry .....  
Waldo's Descriptive .....  
Geometry ..... Heato

## GERMAN.

Nichol's Analytic .....  
Blocher's Surveying. .... Johnson  
Chauverit's Series. Lippincott  
Nichols' ..... Longmans  
Gore's Plane & Solid. ....  
Estill's .....  
Murray's Trig .....  
Noetling's Elements of. ....  
Edward's Geom. .... Macmillan  
Lock-Miller's Trig. ....  
Loney's Trig. ....  
Pattee's Plane Geom. .... Silver  
Walsh's Trigonometry. ....  
Brooks' Plane & Solid. .... Sower  
" P. & S. Trig. ....  
Bradbury's Ele. Pl. Thompson  
" Trig. ....  
" Geom. & Trig. ....  
" Acad. Plane .....  
" Acad. P. & S. ....  
" Trig. & Survey. .... University  
Venable's ..... University



# School Board Journal

## GERMAN—Continued.

Collar's Lessons.....Ginn  
Bernhardt's Course....."  
Stein's Exercises....."  
Joyne-Meissner's Gram....."  
Heath's Series....."  
Harris' Ger. Lessons....."  
Heath's Series....."  
Guerber's Maerchen....."  
Ils. First Reader and  
Teusler's Outlines Liter-  
ature.....Johnson  
David's Easy Stories....."  
Longman's Grammar....."  
Composition....."  
Grammar....."  
Althaus' Grammar....."  
Beresford-Webb's Gram....."  
Macmillan's Series.....Macmillan  
Maynard's Texts.....Maynard  
Neue Anekdoten....."  
Deutschland und die  
Deutschen.....Maynard  
Beginner's....."  
Loebberg's Reader.....Morse  
Gems of Literature....."  
Bernhardt's....."  
Eclectic....."  
Worman's....."  
Colloquial Convers.....Pitman  
Pitman's Practical....."  
Mueller's Series.....Silver  
Silver Modern Language  
Series....."  
Knofoch's Ger. Simp....."  
University  
Hamilton's Primer.....Western  
Martin's Series.....Werner

## GRAMMAR.

(See Language and Grammar.)

## GREEK.

Forman's.....American  
Gleason & Atherton's....."  
Harper & Castle's....."  
Twentieth Century Series....."  
Pearson's.....Appleton  
Goodwin's Grammar.....Ginn  
White's First....."  
White's Beginners....."  
Seymour's Illad....."  
Perrin & Seymour's....."  
Odyssey....."  
Collar & Daniels' Beginn-  
ers Companion....."  
School Classic Series....."  
College Series—Authors....."  
Bryant's Illad.....Houghton  
Bryant's Odyssey....."  
Palmer's Odyssey....."  
Ritchie's.....Longmans  
Arnold's Prose Comp.....Scott  
Jones' Prose Comp.....Scott

## HISTORIES.

Eggelston's.....American  
McMaster's U. S....."  
Barnes' (2)....."  
Eclectic (2)....."  
Swinton's....."  
Munro's Mid. Ages.....Appleton  
Whitcomb's Europe....."  
Hull's English....."  
McLaughlin's Amer.....Butler  
Scudder's U. S.....Butler  
New Era Series.....Eaton  
Myer's Series.....Ginn  
Emmeton's M. Ages....."  
Montgomery's U. S....."  
" English....."  
" French....."  
Thomas' U. S.....Heath  
Shelton's U. S....."  
" General....."  
" Grk. and Rom....."  
Homan's Elem. U. S....."  
Thomas' Elementary....."  
John Fiske's U. S.....Houghton  
Larned's English....."  
Riverside Bldg. Ser'es....."  
Plaet's Epitome of....."  
Lee's U. S.....Johnson  
Shinn's Ark....."  
Riley's Miss....."  
Maury's Va....."  
N. C. Stories....."  
Texas Stories....."  
Tennessee Stories....."  
Morris Series (3).....Lippincott  
Oman's Greece.....Longmans  
How & Leigh's Rome....."  
Higginson's U. S....."  
Gardiner's Stud. Eng....."  
Ransom's England....."  
Robinson's Rome....."  
Higginson & Channing's  
England....."  
Channing's U. S.....Macmillan  
Shuckburg's Rome....."  
Botsford's Greece....."  
Robinson's Greece....."  
Adams' European....."  
Channing's Student....."  
" Gram. School....."  
Coman & Kendall's Eng....."

Anderson's U. S.....Maynard  
" England....."  
" France....."  
Leighton's Rome....."  
Dutton's Series.....Morse  
Smith's Manual U. S.....Potter  
Andrew's U. S.....Scribner  
Adams'....."  
Burgess'....."  
Gordy's U. S....."  
Johnston's U. S....."  
Oxford Man. of Eng....."  
Thatcher & Schwill's....."  
Mowry's First Steps.....Silver  
Mowry's U. S. History....."  
Andrew's Institutes....."  
Stone's England.....Thompson  
Hansell's School.....University  
" Higher....."  
Jones' U. S....."  
Evans' Georgia....."  
Brown's Alabama....."  
L. & M. Mississippi....."  
Ellis'.....Werner  
Burton's Our Country....."  
Thomas' Words of Lin-  
coln.....Western

## LANGUAGE AND GRAMMAR.

Harvey's.....American  
Long's....."  
Maxwell Series....."  
Lyte's....."  
Metcalfe & Bright's.....American  
Metcalfe's....."  
Powell & Connolly's....."  
Irish's Orthog. & Or-  
thopy.....Irish  
Irish's Gram. & Anal.  
by Diagram....."  
Sheldon's Prim. Lan-  
guage Lessons.....Butler  
Patterson's Ele. of  
of Gram. & Comp....."  
Sheldon's Advanced....."  
Powell's How to Talk....."  
" How to Write....."  
" How to See....."  
Practical Studies in Flanagan  
Whitney & Lockwood.....Ginn  
Tarbell's Lessons....."  
Knox-Heath's Ele....."  
Lockwood's Lessons....."  
Arnold & Kittredge....."  
Hyde's English Lessons.....Heath  
" Eng. Gram....."  
Metkelljohn's Eng. Gr....."  
Allen's School Gram....."  
Pendleton's Analysis.....Johnson  
Patrick's Lang. Less....."  
Patrick's Gram. Less....."  
Longman's.....Longmans  
Carpenter's Gram.....Macmillan  
Davenport & Emer-  
son's Grammar....."  
Intro. Lang. Work.....Maynard  
Reed & Kellogg's....."  
Reed's Introductory....."  
Kellogg & Reed's Word  
Building....."  
Essentials of English  
Gram.....Potter  
Supplementary Lessons  
in English....."  
Atwood's Language  
Tablets....."  
Analysis and Parsing....."  
Spalding & Moore's  
Language Speller....."  
Bartlett's Series.....Richardson  
Bartlett's Series.....Silver  
Milne's Grammar....."  
Welsh's.....Sover  
Dunton & Kelley's.....Thompson  
DeGarmo Lang. Ser.....Werner  
Brown & DeGarmo's  
Gram....."  
McHenry's.....Western  
Woodward Series.....Woodward

## LATIN.

Harkness' Series.....American  
Coy's Latin Lessons....."  
Dodge & Tuttle's Comp....."  
Hamer's Easy Steps....."  
Maury's Va....."  
Mooney's Grammar....."  
Smiley & Storke's Beg....."  
Harper & Gallup's Cle-  
ero....."  
Harper & Miller's Vir-  
gil....."  
Harper & Tolman's  
Caesar....."  
Twentieth Century Se-  
ries.....Appleton  
McCabe Series.....Butler  
Bingham Series....."  
Cranch's Aeneid Trans....."  
Allen & Greenough.....Ginn  
Collar's Series....."  
Moulton's Composition....."  
College Series of....."  
Greenough, D'Oge &  
Daniels' Second  
Year.....Houghton

Ritchie's First Steps  
" Latin Prose Comp.....Longmans  
" Easy Continuous  
Latin Prose....."  
Morris' Ele. Latins....."  
Ils. First Reader and  
Grammar....."  
St. Clair's Caesar....."  
Students' Series.....Sanborn  
Classics (58 books)....."  
Intercollegiate Series.....Scott  
Bellum Helveticum....."  
Jones' Lessons....."  
" Prose....."  
Riggs' in Latinum....."  
Gildersleeve-Lodge  
Series.....University

## LITERATURE.

(See English Literature.)

## LOGIC.

Davis'.....American  
Schuyler's Prin of....."  
Ballantine's Inductive.....Ginn  
Lafleur's Ill. of....."  
Mills' System.....Longmans  
Creighton's.....Macmillan  
Jevon's....."

## MANUAL TRAINING.

Compton's.....American  
Ham's....."  
Hoffman's....."  
Kirkwood's Sewing....."  
Goss' Bench Work.....Ginn  
Hapgood's Needle Work....."  
Banner's Sewing.....Longmans  
Hewitt's, 2 vols....."  
Unwin's Clay Modelling....."  
Hlawatha Primer.....Houghton  
Riverside Lit. Series....."  
Longmans' "Ship" Lit.  
Longmans' Supplement....."  
Fairly....."  
Longmans' Infant Fairy  
"Ship" Historical....."  
"Chatty....."  
Blaisdell's.....Macmillan  
Graded Literature.....Maynard  
Deane's Phonetic.....Morse  
New Century Series....."  
New Script Primer.....Potter  
Vertical Script Primer....."  
New Phonetic Primer....."  
Stories of Starland....."  
Solomon's Sloyd.....Silver  
Brumbaugh's.....Sower  
Davis'.....University  
Holmes'....."  
Lippincott's....."  
Woodward Series.....Woodward

## MENTAL SCIENCE.

Bain's Mental.....American  
Hewett's Psychology....."  
Schuyler's Psychology....."  
Bowne's....."  
Dewey's Psychology....."  
Hallack's Psychology....."  
Hewitt's Psychology....."  
Putnam's Psychology....."  
Buell's Essence of.....Ginn  
Sanford's Psych.....Heath  
Compayre's Psych....."  
Herbart's Psychology....."  
Dexter's & Garlick's  
Psychology.....Longmans  
Fitcher's Psych.....Macmillan  
Baker's Ele Psych.....Maynard  
Robertson's Ele of.....Scribner  
Minto's Logic....."  
Muirhead's Eth. Ele of....."  
Hyslop's Ele of Eth....."  
Davis' Ethics.....Silver  
Davis' Elements of Psy-  
chology....."

## MUSIC.

Natural Series.....American  
Model Series....."  
Gantyoort's Series....."  
Matthew's Songs....."  
Siefert's Choice Songs.....Butler  
Educational Series.....Ginn  
Mason's Course....."  
National Course....."  
Whitling's Series.....Heath  
Hart's Class. Reader....."  
Emerson's Hymnal....."  
Riverside Song Book.....Houghton  
Russell's Vocal Culture....."  
Bertenshaw's Meth.....Longmans  
Brower & Reddall.....Maynard  
American System.....Richardson  
Stevenson Song Book.....Scribner  
Field-DeKoven S. Book....."  
Modern Series.....Silver  
Study....."  
Cecilian Series....."  
Silver Song Series....."  
Green's.....Werner

## NATURAL SCIENCE.

Treat's Home Studies  
".....American  
Treat's Home Studies....."

Cooper's Animal Life....."  
Herrick's Plant Life.....American  
Bailey's Physics.....Heath  
Guides for Teaching....."  
Rick's Natural His....."  
Rice's Teaching....."  
Spear's Leaves and  
Flowers....."  
Scott's Nature Study....."  
Miller's Birds.....Houghton  
Burrough's Squirrels....."  
Eckstorm's Woodpeck-  
ers....."  
Story of the Ages.....Johnson  
Some Birds and Their  
Ways....."  
Stories of Bird Life....."  
Lessons in Plant Life....."  
Reddard's Zoology.....Longmans  
Nature's Byways.....Morse  
Engell's Outlines in Na-  
ture Normal Course.....Silver  
Norcross's Springtime....."  
Flowers....."  
Griffin's Philosophy.....Sower

## ORATORY.

Smith's Reading and  
Speaking.....Heath  
Webster's Bunker  
Hill.....Longmans  
Briefs for Debate....."  
Pollett's Speaker....."  
Espenshade's Forensic  
Declamation.....Silver

## PEDAGOGICS.

Hewitt's.....American  
White Ele of....."  
Roark's....."  
Hallmann's....."  
"Sch Management....."  
Compayre's His of.....Heath  
Heath's Pedagog Lib....."  
Hall's How to Teach  
History....."  
Barnett's Teaching and  
Organization.....Longmans  
Garlick's Manual of  
Methods....."  
Beale's Work & Play....."  
Salmon's Art of Teach....."  
Barnett Com Ser in....."  
Am. Teacher Series....."  
Landon's Class Manage-  
ment.....Macmillan  
Herbart's.....Scribner  
Butler's....."  
Arnold's Waymarks.....Silver  
Smith's Systematic  
Methodology....."  
Morgan's Studies....."  
Putnam's Manual....."

## PENMANSHIP.

Barnes' Vertical.....American  
Spencerian Series....."  
Curtis' Semi-Vertical....."  
American Vertical....."  
Sheldon's Vertical.....Butler  
Butler's Copy Books....."  
Roudebush Writing.....Central  
Shayne's Vertical.....Ginn  
Ginn's Slant....."  
Nat. Sys. of Vertical.....Heath  
Newland & Rowe's Ver.  
Smithdeal's Slant.....Johnson  
Johnson's Vertical....."  
Williams & Tilford Bus.  
System....."  
Paragon.....Krone  
Longman's New Copy  
Books.....Longmans  
Merrill's Vertical.....Maynard  
Merrill's Modern....."  
Intermediate System.....Morse  
Economic System of  
Penmanship, 6 Nos.....Potter  
Potter & Putnam's Sys-  
tem of Vertical  
Writing, 10 Nos....."  
Man. Business Writ.....Powers  
Smith's Intern.....Richardson  
Standard Vertical.....Sower  
Popular Slant....."  
Normal System.....Silver  
Duntonian.....Thompson  
University Series.....University  
Simplified Penmanship....."  
National Sys. Vert.....Werner

## PHYSICS.

Harrington's.....American  
Hoadley's....."  
Rowland & Ames'....."  
Ames & Bliss'....."  
Cooley's Series....."  
Henderson & Woodhull  
.....Appleton  
Avery's Series.....Butler  
Gage's Series.....Ginn  
Wentworth & Hull's....."  
Stone's....."  
Dolbear's....."  
Hastings & Beach's....."

Chute's Lab. Man.....Heath  
" Physics....."  
Whiting's Physical  
Measurement....."  
Bailey's Ele. Physics....."  
Sharpless & Phillips Lippincott  
Hopkins' Prep.....Longmans  
Watson's Practical....."  
Wright's....."  
Glazebrook & Shaw's  
Practical....."  
Watson's Advanced....."  
Balfour-Stewart's.....Macmillan  
Crew's Elements....."  
Nichols'.....Maynard  
Shaw's.....Morse  
Smith's Experiments.....Morse  
Thwing's Elementary.....Sanborn  
Britton's.....Scribner  
Grant's....."  
Dana's....."  
Mills'....."  
Storer's....."  
Thompson's....."  
Mead's Elements.....Silver  
Grifford's Ele.....Thompson  
Adams' Lab. Man.....Werner

## PHYSICAL CULTURE.

Morris' System.....American  
Stoneroad's.....Heath  
Pray's Motion Songs....."  
Bancroft's Gymn....."  
Johnson's.....Johnson  
Anderson's.....Maynard  
The Ling System.....Silver

## PHYSIOLOGY AND HY- GIENE.

Overton's Series.....American  
Pathfinder Series....."  
New Century Series....."  
Union Series.....Butler  
The Teacher's Manual.....Central  
Blaisdell's Series.....Ginn  
Colton's.....Heath  
"Briefer....."  
Cutter's Series.....Lippincott  
Barnett's Making of the  
Body.....Longmans  
Ferneaux's Phys....."  
Thornton's Phys....."  
Moore's Phys....."  
Poster & Shors.....Macmillan  
Huxley & Ree....."  
Devine's....."  
Ely's Outlines....."  
Hutchinson's Series.....Maynard  
Standard School.....Morse  
Stowell's Health Series.....Silver  
Gifford's Ele.....Thompson  
Dunglison's.....Werner  
Baldwin's Physiologies....."

## POLITICAL ECONOMY.

Laughlin's.....American  
Gregory's....."  
Wayland's.....Butler  
Chaplin's....."  
Wayland's Elements....."  
Thompson's.....Ginn  
Gide's.....Heath  
Davenport's.....Macmillan  
Macvane's.....Maynard  
Perry's Prin.....Scribner  
Woolsey's....."  
Bullock's Economics.....Silver  
Thurston's.....Scott  
Meserve's.....Thompson

## READERS.

Baldwin's.....American  
Harper Series....."  
Swinton Series....."  
Barnes' Series....."  
Appleton Series....."  
McGuffey Series....."  
New Education....."  
Sheldon's Series.....Butler  
New Franklin Series....."  
Progressive....."  
Hazen's....."  
New American....."  
Monroe's New....."  
Cyr's Series.....Ginn  
Stickney's Series....."  
Finch's....."  
Summer's....."  
Strong's....."  
Classics for Children....."  
Heart of Oak.....Heath  
Bass'....."  
Pratt....."  
Johnson's.....Johnson  
Graded Classics....."  
Blaisdell Child Life  
(Primer & 5 books)....."  
Judson & Bender's.....Maynard  
Normal Series.....Silver  
Stepping Stones....."  
Rational Method....."  
New Norman.....Werner  
Columbian....."  
Taylor Series....."  
Werner Primer....."  
Pollard's.....Western

## SHORTHAND.

Hefley's Manual.....American  
Mason's Manual....."  
Barnes' Shorthand for  
High Sch.....A. J. Barnes  
Barnes' Shorthand Les-  
sons....."  
Barnes' Shorthand Read-  
ers....."  
Barnes' Manual....."  
" Business Letters  
in Shorthand....."  
Twentieth Cent. Series....."  
Isaac Pitman's Com-  
plete Instructor.....Pitman  
Complete Amassensis  
Course for H Sch....."  
Business Correspondence  
in Shorthand....."  
Isaac Pitman's Phono-  
graphic Dictionary....."  
Munson Phonography.....Powers  
Pitman Phonography....."  
Cross' Eclectic.....Scott

## SPANISH.

Bacon's Elements.....American  
Garner's Grammar....."  
Mantilla's Readers....."  
Worman's Readers....."  
Twentieth Century Series....."  
DeTornos.....Appleton  
Knapp's Grammar.....Ginn  
Int. Mod. Language....."  
Cyr's Libro Primer....."  
" Libro Segundo....."  
Tarbell's Lessons....."  
Frye's Geografia Ele....."  
Grammar.....Pitman  
Pitman's Prac Spanish  
Loiseau's Grammar.....Silver  
Loiseau's Reader....."  
Ford's Anthology....."  
Knofach's Span. Simp....."  
University  
Edgren's Grammar.....Heath  
Matzke's Reader....."  
Fuller's Primer....."  
Harra's Method....."

## SPELLERS.

Rice's Series.....American  
Harrington's....."  
Natural....."  
New American....."  
Swinton's....."  
Amer. Word Book....."  
Amer Spelling Blank....."  
Barnes' Writing....."  
Dinsmore's Blanks....."  
Manson's Blanks....."  
Modern.....Butler  
Worcester's....."  
Monroe's....."  
Hazen Grade.....Ginn  
Jacobs' Practical....."  
Jacobs & Piper's....."  
Stickney's.....Heath  
Sever's....."  
Penniman's New Prac....."  
Benson's....."  
Branson.....Johnson  
Blaisdell Speller.....Macmillan  
Reed Word Lessons.....Maynard  
Morse Speller.....Morse  
Gem Spelling Blanks.....Peckham  
Classic Speller, 2 Nos.....Potter  
Students' Standard  
Speller....."  
The Practical.....Powers  
Spalding & Moore.....Richardson  
Normal Course.....Silver  
Beitzel's Word Build.....Sower  
Students'.....Scott  
Holmes' Elem.....University  
Spelling & Word Build-  
ing....."  
Hansell's Primary....."  
Lippincott's....."  
Columbian.....Werner  
Buckwalter Series....."  
Pollard.....Western  
Woodward's.....Woodward

## TYPEWRITING.

Complete Instr.....A. J. Barnes  
Special Instructor....."  
Abridged Instructor....."  
Van Sante Touch.....Pitman  
Bunk's Easy.....Sadler  
" Touch....."

## ZOOLOGY.

Burnett's.....American  
Holder's Elementary....."  
Morse's First Book in....."  
Steele's Series....."  
Needham's....."  
Orton's....."  
Animal Forms.....Appleton  
Animal Life....."  
Johannot's Series.....Butler  
Colton's....."  
Greene's.....Lippincott  
Reddard's.....Longmans  
Davenport's.....Macmillan  
Harvey's.....Western  
Parker & Haswell's....."

## An Introduction to Physical Geography.

By Grove Kark Gilbert, LL.D., and Albert Perry Brigham, A. M. Illustrated. 12mo. Cloth. Twentieth Century Text-Books. Price, \$1.25 net. Published by D. Appleton & Company, New York, Boston, Chicago.

This work is not only valuable as a text-book in a high school course, but deserves a place in every home library. The subject is presented in an attractive yet simple form, technical terms

are sparingly used, and, when employed, they are promptly defined. The authors are, in themselves, a sufficient guarantee for the thoroughness, the accuracy and concrete treatment of the subject. They have lent to the book the full value of their long experience and great familiarity with the physical geography of the globe.

The new pedagogy here finds expression in the treatment of the subject and the statements are not merely theoretical but definite and log-

ically summarized. The topics cover "The Physical Environment of Man," "The Earth as a Globe, the Ocean, the Air and the Land."

The illustrations are remarkably fine and aid, materially, in giving the student an accurate idea as to the formation of mountains, ocean currents and ocean beds, etc.

Mankato, Minn. Daniell's Latin Prose Composition has been adopted.

## Keep Your Stomach Well

**Horsford's Acid Phosphate**  
CURES habitual stomach weakness, improves the appetite and digestion, and removes the cause of headaches and wakefulness.

It imparts new life and vigor to both brain and body, by restoring to the system the needed tonic and nerve food. Insist on having

## Horsford's Acid Phosphate

Horsford's name on every GENUINE package.

### Definition of a Needle.

The following definition of a needle was given by a bright boy, who wrote not from tradition but from observation: "The needle is a sewing tool. It is composed of two parts, the point and the eye. The point is made of steel and is what you stick through the cloth. The eye is made of air, and is what you stick the thread through."

"Hello, sir, kept in after school again. What for?"

Johnnie: "Because Johnnie Wilkins had a fight."

"Don't talk nonsense. With whom did he have a fight?"

Johnnie: "With me."

"Wasn't it a terrifying experience," asked his friend, "when you lost your foothold and went sliding down the mountain side?"

"It was exciting, but extremely interesting," said the college professor. "I could not help noticing, all the way down, with what absolute accuracy I was following along the line of least resistance."



**Correct.**

Teacher: "How many mills make a cent?"

Charlie Chigwidden: "None my father says, unless they are in the Trust.—Puck."

"WATER, woher wissen denn die Gelehrten schon immer, wann eine Sonnenfinsternis ist?"

"Nu, Du dämlicher Kerl, kannst Du Dir denn nich denken, daß die Gelehrten doch Zeitungen lesen?"

Lehrjunge: "Verträgt sich Deine Meisterin mit Deinem Meister gut?"

Lehrjunge: "Na, es kommt mir oft vor, als wäre er in der—Lehre bei ihr."

### A Comma and a Period.

Teacher: "Tommy, what is the difference between a comma and a period?"

Tommy: "A comma is a dot with a tail to it and a period is a bob-tail dot."

A mother asked a little boy on his return from his first day at school how he liked the teacher. He said, "Mamma, she is the funniest teacher I ever saw. She didn't ask me a thing 'cept what I didn't know."

### Doing it proper.

The reporter was interviewing the Western millionaire.

"It is true that you are going to endow a chair in that university?"

"Endow a chair?" he thundered; "why, b'gosh, I can give a whole set o' furniture, and I'll do it, too. Say that in yer paper! There ain't nothin' cheap about me."

"Let 'er rain," said the lead pencils in the weather bureau. "We have our rubbers on."

The following anecdote, clipped from the "Youths' Companion," contains a lesson which no teacher can afford to ignore:

A student called on his instructor in English, taking with him a theme which was covered with the instructor's red ink.

"I beg your pardon, sir," he said, "but I couldn't make out this correction here. It's—it's a little hard to read."

The instructor took the theme, scowled at it critically, and then said, with a mixture of humor and irritation:

"Why, it says—it says, 'Write more legibly!'"

Jimmy—I wish I went to school in Russia.

Johnny—Why?

Jimmy—It takes all day to call the roll.

"Why, Willie," said his teacher, "what makes your hair so red?"

"Aw, I just had scarlet fever and it settled in me head."

Teacher—It was only yesterday that I saw you throwing stones and told you you must not do it. Pupil—And here I am throwing stones again! It beats all, doesn't it?

Teacher—What is the force that moves men along the street? Tommie—The police force.

### Dreams Go By Contraries.

Old Gentleman—Why are you crying, my little man?

Small Boy (sobbing)—I dreamed last night that the school burned down, and—

Old Gentleman (sympathetically)—Oh, but I don't believe that it has.

Small Boy—Neither do I. I kin see the top of it over the hill.

WHEN you can get a pencil that is as good as a DIXON buy it, for on examination you will find that it is a Dixon. Pencils differ because they are not made from the same materials, and some are not made as carefully as others.

### The Dixon Company

Uses the finest and straightest grained cedar which when combined with the finest graphite makes a pencil that is absolutely unequalled for all kinds of educational work.

Send 16 cents in stamps mentioning this publication and abundant samples will be sent you.

## Joseph Dixon Crucible Company

JERSEY CITY, N. J.

### A Nerve Defined.

A certain Brooklyn kindergarten contains during the school term many bright little folks, and their answers to questions are often amusing. On a morning not long ago the head teacher was giving a talk on physiology and asked:

"Who can tell me what a nerve is?"

"I know," said one little tot.

"Well, what is it?"

"It is what makes the tooth hurt when you have the toothache."

This created a laugh and a number of other answers followed, when a little girl, who is usually depended upon to give a reply to almost every question, raised her pointed finger and said:

"I know the answer, teacher; I can tell you."

"You may answer, Emily," said the teacher.

"What is a nerve?"

"When anyone is too fresh my mamma says,

"Oh, what a nerve!"

The lesson ended after a desperate effort to restore order.



### Too Accurate Observation.

Mother: "What do we see above us when we go out on a clear day?"

Ella: "We see the blue sky."

"Correct. And what do we see above us on a rainy day?"

"An umbrella."

READY IN SEPTEMBER

**SANBORN'S CLASSICAL ATLAS--33 MAPS.**

The best Atlas for School or College use ever published in any country.

Prices: Paper, 75 Cents; Cloth, \$1.50.

**BENJ. H. SANBORN & CO.,**

Boston.

New York.

Chicago.

**Judson and Bender's GRADED LITERATURE READERS.**

**Reed and Kellogg's LESSONS IN ENGLISH.**

**Huchinson's PHYSIOLOGIES. Peter's MODERN CHEMISTRY.**

**MAYNARD, MERRILL & CO., Publishers.**

NEW YORK.

BOSTON.

CHICAGO.



**A Model District School.**

The most difficult problem of the district school room is heat and ventilation. A stove in a school-room is an abomination. It is unsightly, it is dirty, it consumes an immense amount of space, its heat is unequally distributed, and consequently it is unhealthful, and even when, as is sometimes done, the stove is jacketed and placed in a niche especially constructed to hold it (a relatively expensive arrangement), it is still unsatisfactory and it never can be made to aid much in ventilating the room. The ordinary furnace for hot air or steam, requiring a basement and expensive apparatus, is usually out of the question in a district school house. It is, however, entirely possible to brick over a common stove in the school hall, carry the hot-air duct directly from the heating chamber thus formed through the partition and into the room at the top; and by constructing at either side of this chamber ventilating flues, which unite in the chimney and pass out beside the smoke flue, all the advantages of the best hot-air heating and ventilating will be secured, with only the cost of the extra brick-wood above the cost of an ordinary stove. By carrying one ventilating duct under the floor, the foul air can be taken from opposite corners of the room, the heat from the hot-air chamber and smoke flue insuring a strong, steady draft for ventilation. Thus pure air taken from outside will enter the school-room warm, while the heavier foul air and the colder air will be taken from the floor and the room will be constantly full of warm, pure air of uniform temperature. That this contrivance is practicable the writer knows from actual experience. Another advantage of its use for school heating would be that the hall and wardrobes would be warmed by radiation from the heated brickwork; while, by arranging shelves above, an excellent place would be provided for keeping warm the dinners, which are so necessary a part of the life of a country school.

The wardrobes should be supplied with an abundance of hooks, if possible, should have umbrella racks with removable dripping pans and should have sinks and basins and ample drinking facilities. The out-houses should be well made, plentifully lighted through ground glass or whitewashed windows, should have their interior sanded and painted a dull gray to prevent marking and should, above all, be well ventilated.

The best school furniture and appliances procurable from thoroughly reliable houses are the cheapest in the end. The teacher's desk should be large, with plenty of lock drawers, and should have a flat top upon which objects to be viewed by the pupils can be placed. For the pupils, adjustable desks, second to fifth sizes, inclusive, placed in rows as to size, the larger number being of the smaller size, will, undoubtedly, give the best results. In the country school pupils of every conceivable size are frequently in attendance at the same time, which is a strong argument in favor of the adjustable desk. If a

district does not care to put in adjustable desks throughout, there certainly should be a few of each of the sizes mentioned and under no circumstances should a room be seated with anything but single desks in three or four different sizes. In the room here described there are desk-seats for fifty-one pupils, with ample aisles and room in front for standing recitations; the smaller desks, whose occupants require so much of a teacher's personal attention, being placed where she can reach them most conveniently.

Some might object to recitation seats in a district school as a luxury, but if it is such it is a luxury which will pay well with the class seated so the interest and attention is easily concentrated upon the subject under discussion, and maps or charts or illustrative material upon the teacher's desk can be readily viewed by the entire class or good recitation is secured and pupils in classes not reciting will not study with another reciting over their head. The same objection may be raised to the reading table and library and apparatus cases at the side of the room. They can be dispensed with, but not without serious loss. School libraries for reference and general reading are becoming common. They are a splendid addition to the equipment of a school, but should have a suitable place to be kept in and another in which to be used, and in a district school that place must necessarily be in the school-room. A district school teacher should be amply supplied with maps, charts, globes, books and other educational material, and with a convenient place in which to put them, they will not only remain in better condition, but will be likely to give better results. Then, these tables and sets of cases, crowned with neat and instructive plaster casts, would do much to aid the numerous pictures and other decorations which should be found in every school-room, in making the room attractive and beautiful.

## Educational Games

**For Study Hour, Occupation and Class Work.**

RICHARD G. BOONE, Superintendent of Schools, Cincinnati, O., Editor in Chief.

IN PRESS:

**New Mathematical Games.**

Edited by DAVID EUGENE SMITH, Professor of Mathematics, Teachers' College, Columbia University, New York.

GAMES OF

**Addition and Subtraction,  
Multiplication and Division.**

For second, third, fourth and fifth years.

By EARL TRISLER, First Asst., 3d Intermediate School, Cincinnati, O.

**Game of Factions.**

For second to eighth year, inclusive.

By E. W. WILKINSON, Prin. 1st Intermediate School, Cincinnati, O.

Each of the above games can be played in various ways and made simple or more difficult, to suit the pupils' needs, and to keep pace with their advancement.

The natural instinct of the child is to play. While these card games utilize this instinct to accomplish the ends of play, they are so constructed as to further and re-enforce the other means of education, without lessening the entertainment.

For group work one pack should be allowed for each five or six pupils, and for class work one for each eight pupils.

Ask your dealer to show you our line of Educational games, or send for list, and special introductory discount to school boards and teachers. Sample pack, postpaid, 25 cents. Advance orders will be filled immediately on publication.

**Dept. D.**

**The Cincinnati Game Co., Cincinnati, O.**

The blackboards, placed in long strips at the front and back of the room, should of course be of stone slate, and should be supplied with wide trough, hard chalk and some well-made eraser.

**State Teachers' Association Meeting.**

Connecticut State Teachers' Association. New Haven, October 17. President, F. A. Brackett, Hartford; vice-presidents, C. B. Jennings, New London, and W. North Rice, Middletown; secretary, S. P. Willard, Colchester; treasurer, W. F. Nichols, New Haven.

Maine State Teachers' Association. Waterville, October 16, 17, 18. President, F. W. Johnson, principal, Waterville.

New Hampshire State Teachers' Association. Concord, October 24, 25. President, Henry C. Morrison; vice-president, Geo. H. Whittecher; secretary, Harriet L. Huntress; treasurer, Channing Folsom.

Vermont State Teachers' Association. Bellows Falls, October 23-25. President, Principal S. H. Erskine, Rutland; secretary, Principal E. G. Ham, Montpelier; chairman executive committee, Principal H. J. Stannard, Barton.

**Olcott's**

# DEDBLAK SLATING

When you are tired experimenting with cheap liquid slatings, send \$3.00 for a gallon can of **Olcott's Dedblak** and make a blackboard on which the crayon WON'T SLIP. One gallon covers 250 square feet, three coats.

Used by the Chicago Board of education in barrel lots.

**J. M. OLCOTT & CO.**

63 Fifth Ave., New York. 167-169 Fifth Ave., Chicago.



## ARIZONA.

Prescott—Archts. D. W. Millard & Son are preparing plans for a library for the Library Association, to cost \$8,000.

## COLORADO.

Pueblo—Archts. Bishop & Gile planned the new McClelland library to be erected here.

## CONNECTICUT.

Bridgeport—Architect H. A. Howe, Connecticut Bank Bldg., is preparing plans for a 14-room school; \$75,000. South Norwalk—Arch. S. M. Holden, Patterson, N. J., planned the new school here.

## DISTRICT OF COLUMBIA.

Washington—Architect Appleton P. Clark, Jr., 605 F street, N. W., planned the \$40,000 school at Twelfth and N. streets, N. W. Archt. Thomas C. Kennedy, Baltimore, Md., has plans for a school for St. Aloysius Catholic church; \$50,000. An 8-room school to be erected on Pierce street, between First street and New Jersey avenue, N. W.; also an 8-room school, southeast corner Ninth and D streets, N. E., Wm. Tindall, secretary.

## GEORGIA.

Augusta—A \$10,000 Practice School to be erected for the State Normal School here; H. E. Choate, archt., Augusta, Ga.

## ILLINOIS.

Reddick—Arch. C. D. Henry, Kankakee, Ill., drew plans for school for district No. 142; \$3,800. Joliet—D. H. Burnham, archt., 1142 Rookery Bldg., Chicago, drew plans for the new library. Blue Island—Wm. A. Otis, archt., 175 Dearborn street, Chicago, drew plans for the new \$15,000 library. Taylorville—Arch. S. J. Hanes, Springfield, Ill., is preparing plans for new school; \$8,500. Edinburg—Arch. S. J. Hanes, Springfield, Ill., is preparing plans for new school to be erected. Summit—An 8-room school will be built, planned by Archt. Wm. G. Krieg, 84 Washington street, Chicago. Chicago—A Normal Practice School to be erected, planned by W. B. Mundie, archt. Edinburg—Arch. S. J. Hanes, Springfield, Ill., planned new high school; \$9,000. Forrest—Archts. Reeves & Baile, Peoria, Ill., are preparing plans for a 10-room school; \$25,000. Paxton—Archts. Spencer & Temple, Champaign, Ill., have plans for a 4-room school; \$7,500. Chicago—Archts. Murphy & Camp, 279 Dearborn street, have prepared plans for a parish school for Our Lady of Lourdes Roman Catholic congregation. Archts. Turnock & Obrenstein, 1010 Chicago Opera House Bldg., planned the Talmud Torah School to be erected; \$18,000. St. Charles—Archts. Jenny & Mundie, New York Life Bldg., drew plans for the Rural Home and School for Boys to be built. Chicago—Arch. Henry P. Beller, 270 Larrabee street, prepared plans for a parochial school at Wellington street, for St. Alphonsus German Catholic church; \$40,000.

## INDIANA.

Pendleton—Archts. Detraz & Steele have plans for four schools to be erected here. Ingalls—Archts. Detraz & Steele, Pendleton, will erect school here for Henry Swain, trustee. Elwood—A \$25,000 Carnegie library to be erected.

## IOWA.

Oskaloosa—Frank E. Wetherell, archt., drew plans for the new Carnegie library; \$20,000.

## KANSAS.

Leavenworth—Arch. Wm. P. Feth has prepared plans for a school for district No. 51.

## KENTUCKY.

Henderson—Harris & Shopbell, archts., Evansville, Ind., drew plans for the \$25,000 Carnegie library to be erected.

## MAINE.

Rockland—Archts. Clough & Wardner, 53 Tremour street, Boston, Mass., have plans for a \$20,000 library.

## MARYLAND.

Collegepark—Architect J. Evans Sperry, Baltimore, has drawn plans for the \$20,000 addition to the Maryland Agricultural College. Laurel—Buildings for Maryland Industrial and Agricultural Institute for Colored Youths to be erected.

## MASSACHUSETTS.

Painesdale—Public library to be erect-

ed. Write W. A. Palne, of Palne, Webber & Co., brokers, Boston, Mass. South Hadley—Architects Putnam & Cox, Boston, planned the Gaylord Memorial Library to be erected.

Lawrence—A 16-room school contemplated; \$100,000; write Supt. Burke, Prospect Street. Boston—Architects Whitman & Hood, 62 Devonshire street, have plans for a school in East Boston. Ashby—Architects H. M. Francis & Sons, Fitchburg, prepared plans for the four-room school to be erected; \$12,000. Peabody—A \$85,000 high school planned by Architect E. B. Balcomb, Salem, Mass. Beverly—The school committee has recommended a new school, to cost \$40,000; address Adelbert L. Safford, superintendent.

## MICHIGAN.

Delray—Architects Malcomson & Higginbotham, Detroit, Mich., drew plans for new school here; \$50,000. Wyandotte—Architect E. J. Harding has plans for school in District No. 3, Mongaugon township, Wayne County; \$8,000. Houghton—Two schools to be erected; address F. G. Goggin, supervisor of township. Niles—The plans of Architect N. Irving Tillotson were accepted for the new 6-room school. Pontiac—A \$25,000 school to be erected. Mt. Clemens—Architect T. Van Damme is preparing plans for a \$15,000 Carnegie library. Detroit—Louis F. Chevillat, 374 Woodward Avenue, made plans for an addition to the Detroit University school; \$3,000.

## MINNESOTA.

Rochester—Architects Boehme & Cordella, 501 Kasota building, Minneapolis, have additions to the Academy of Notre Dame de Lourdes; \$20,000. Minneapolis—Architect E. S. Stebbins, 614 Masonic Temple, has planned school on Thirty-sixth avenue N., near Bryant street, \$20,000. Halstad—Architects Omeyer & Thor, St. Paul, prepared plans for new high school to be erected; \$14,000.

## MISSISSIPPI.

Biloxi—Architects Torgerson & Harkness, Gulfport, Miss., have prepared plans for the \$3,500 school for First Ward. Gulfport—A \$10,000 addition to be erected, planned by Architects Torgerson & Harkness.

## MONTANA.

Butte—A school to be erected for School District No. 1, planned by Architect W. A. O'Brien. Bozeman—A \$15,000 Carnegie library to be erected; C. S. Halre, architect, Helena, Mont.

## NEBRASKA.

Beatrice—A new library to be erected, planned by Geo. A. Berlinghof, architect. Decatur—Architects I. P. Hicks & Son, Omaha, drew plans for a 6-room school.

## WHAT IS SCHAPIROGRAPH?

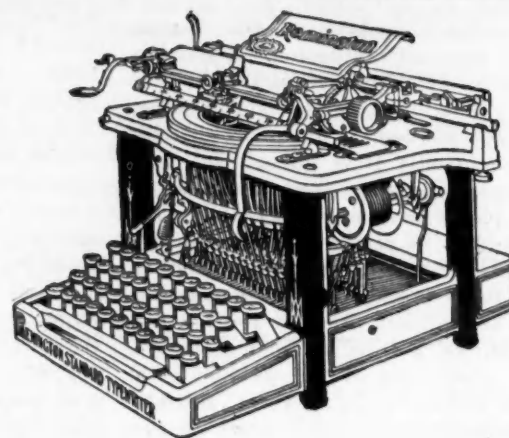
THE DUPLICATOR that cleanly multicopies anything written with pen and typewriter, also music drawings, etc. One original gives 150 copies BLACK ink in 15 minutes. Avoids: stencil, washing, delays, and expensive supplies.

Price, complete cap-size outfit, \$2. Lasts years. Sent on five days free trial without deposit. THE A. SCHAPIROGRAPH CO., 65 Broadway, New York.



## MODERN AMERICAN SCHOOL BUILDINGS

Treatise on School House Construction. 8vo. xxi. 441 pp. Cloth, \$4.00. First twelve chapters presented for first time. Chapters XIII. and XIV. were papers prepared for State Board of Health Reports. Chapter XV. is composed of papers originally written for architects and builders and last chapter compiled to complete series. 89 full page illustrations. Sample pages and illustrations on application. JOHN WILEY & SONS, Publishers, New York.



**Good Work      Durability  
Simplicity      Speed**

ARE THE

**Four Pillars of Strength**

WHICH SUPPORT THE

**Remington  
Typewriter**

You will find them in every Remington

**WYCKOFF, SEAMANS & BENEDICT**

(Remington Typewriter Co.)

**327 Broadway. - New York.**

## MISSOURI.

Kansas City—The Sisters of Loretto, Thirty-ninth and W. Prospect streets, are to erect a new \$250,000 school.

## NEW JERSEY.

Longbranch—Leon Clobberley, architect, Record building, drew plans for new school to be erected. Wharton—Architects Brouse & Arend, First National Bank building, have plans for a school here. Camden—A new school to be erected, planned by Arnold H. Moses, architect, Philadelphia, Pa.; \$40,000. Bridgeton—A new 10-room school contemplated; John F. Watson, chairman. Bordentown—Architect Robert C. O'Kon, Town of Union, N. J., has plans for the Industrial School for Colored Children, to be erected; \$20,000. Somerville—Architect W. T. Towner, 157 Summer street, Boston, Mass., drew plans for the \$70,000 school to be built.

## NEW YORK.

New York City—Architects Clinton & Russell, 32 Nassau street, prepared plans for the \$40,000 school for the Children's Aid Society. Binghamton—Architect L.



New Public School No. 134, Brooklyn, N. Y., equipped with The Buffalo Adjustable Window Shade Fixtures.

**Manufactured by the BUFFALO FIXTURE WORKS, Buffalo, N. Y.**



# SPENCERIAN

SCHOOL PENS-  
and  
3 other Standard Brands

PERRY & CO. ECLECTIC  
Williams and Rogers.

*different prices according  
to quality of metal  
and workmanship  
samples and prices  
to School Teachers—*

SPENCERIAN PEN CO.  
349 Broadway New York.

E. Palmer, Albany, N. Y., will make extensive improvements to Hartwick Seminary. Brooklyn—A \$65,000 school to be erected, according to plans of C. B. J. Snyder, architect, New York City. Marcellus—Architects Colton & Clark, Syracuse, N. Y., have plans for addition to high school. West Seneca—A. A. Post, architect, Mooney-Brisbane building, Buffalo, N. Y., planned the new Industrial school here. Little Falls—Architect A. F. Lansing, Watertown, N. Y., is preparing plans for a new high school to be erected. New York City—Architects Parish & Schroeder, 3 W. Twenty-ninth streets, planned the school for the trustees of Teachers' College, to cost \$200,000.

## OREGON.

Pendleton—Architect Arthur W. Cole, Marquette building, Chicago, Ill., has plans for a \$15,000 to \$20,000 school here. Gervais—Architect W. C. Knighton, Portland, is preparing plans for school to be erected.

## PENNSYLVANIA.

Philadelphia—Architect Jacob Naschold, 504 Walnut street, has plans for new school at Park and Susquehanna Avenues. Rew—A new school to be erected according to plans of Mullin & Mullin, architects, Bradford, Pa. Bentleyville—New school contemplated; W. W. Hixon, president. Butler—Architects Porter & Gaisford planned new \$9,000 school. Graceton—New school contemplated; J. M. Johnston, secretary. Blairsville—New school to be erected; Wm. Walter, president. Newville—A 2-room school contemplated; M. S. Cogan, secretary, New Britain, Pa. Philadelphia—Architects Cope & Stewardson, 320 Walnut Street, have plans for an engineering school building, to cost \$600,000. Cresson—Two schools to be erected, one 4 and the other 6 rooms. Plans prepared by George Well, architect, Johnstown, Pa. Lewisburg—Architects Hamme & Leber, York, Pa., planned new school to be erected. New Salem—J. T. Russell, architect, planned 6-room school

here; \$8,000. Wilkesburg—Milligan & Miller, architects, have plans for a 14-room school; \$55,000. Freemansburg—New school to be built; R. H. Hall, secretary. Reading—Architect H. S. Head has prepared plans for a \$12,000 school. Altoona—F. J. Shollar, architect, drew plans for a 6-room and a 4-room school, to be erected in Bedford County. Freedom—Architect J. A. Snyder, Beaver Falls, Pa., has drawn plans for a \$20,000 school. McClellandtown—Andrew P. Cooper, architect, Unlontown, Pa., drew plans for the 2-room school to be erected here. Lewistown—Architect J. F. Stetler, Middleburg, Pa., has prepared plans for an 8-room school here to cost \$20,000. Riddlesburg—Architect F. J. Shollar, Altoona, Pa., has prepared plans for a 6-room school to be built. Harrisburg—A 24-room school to be erected according to plans of Architect C. Howard Lloyd, 15 S. Second Street. Endeavor—Architect C. W. Terry, Oil City, Pa., has prepared plans for a kindergarten school for Mrs. N. P. Wheeler, to cost \$2,000. Breckenridge—Architect A. K. Miller, Penn Building, Pittsburg, drew plans for the \$5,000 school to be built at Breckenridge, near Tarentum, Pa. Wallingford—Robert H. Holland, architect, Wallingford, planned the new \$14,000 school to be erected. Donora—Architect Ellsworth Dean, Fitzsimmons Building, Pittsburg, is preparing plans for a \$50,000 school to be erected. Wilkesbarre—A school is to be erected in Plymouth township; architect, J. F. Pettebone. Allentown—\$68,000 bonds to be issued for school buildings; T. P. Wenner, secretary.

## SOUTH CAROLINA.

Darlington—A 12-room school to be erected according to plans of Chas. C. Wilson, architect, Columbia, S. C. Yorkville—Architect H. E. White, Rockhill, S. C., is preparing plans for an 8-room school; \$10,000. Chester—Architect D. E. Sheridan, 6117 Penn Avenue, Pittsburg, Pa., is preparing plans for school for Braided Institute; \$10,000.

## SOUTH DAKOTA.

Scotland—W. R. Parsons & Son Co., architects, Des Moines, Ia., have planned new school here. Hurley—A \$10,000 school to be erected, planned by W. L. Dow & Son, architects, Sioux Falls, S. D. Lake Preston—F. D. Orff, architect, Minneapolis, Minn., planned new \$15,000 school here. Emery—A \$3,800 school contemplated. Lesterville—A new school to be erected, planned by W. L. Dow & Son, Sioux Falls, S. D. Willows—Architects W. L. Dow & Son, Sioux Falls, S. D., planned the \$4,000 school here. Ankeny—Architects C. C. Cross & Son, Des Moines, Ia., are preparing plans for a 3-room school. Tyndall—A school to be built in District No. 32; R. A. Lorens, clerk school board. Toronto—Architects Maurice A. Hockman & Co., Watertown, S. D., have plans for a 6-room school; \$6,000. Geddes—A new school to be erected this summer. Andover—Architects Buechner & Orth, Manhattan Building, St. Paul, Minn., has plans for a colonial 4-room school. Rowena—A school to be erected; M. Wright, clerk school board. Bristol—A \$4,500 school to be erected. Bonesteel—Special election to be held to vote on erecting new school. Alpena—A \$15,000 addition to be built to high school, planned by Architect Butler. Mission Hill—New school contemplated; address James Devoe.

## TENNESSEE.

Coal Creek—An industrial school for girls and boys is contemplated, write E. L. Foster.

## WEST VIRGINIA.

Lumberport—Architects Holmboe & Lafferty, Clarksburg, W. Va., planned 4-room school, to be erected at cost of \$8,500. Martinsburg—\$35,000 bonds to be voted on for new high school. Parkersburg—A 12-room school, to cost \$40,000, to be erected; Wm. Howe

# E. FABER.

Lead Pencils,  
Penholders,  
Colored Pencils,  
Rubber Erasers,  
Etc., Etc.,  
For School Use.

*My Faber Pencils  
are good all the  
way through*



EBERHARD FABER, - - 645, 647 Pearl St., New York.

Patton, architect. Charleston—A 4-room school contemplated; George Minsker, president.

## Few People Realize

The Danger in That Common Disease, Catarrh.

Because catarrhal diseases are so common and because catarrh is not rapidly fatal, people too often overlook and neglect it until some incurable ailment develops as a result of the neglect.

The inflamed condition of the membrane of the nose and throat makes a fertile soil for the germs of Pneumonia and Consumption, in fact catarrhal pneumonia and catarrhal consumption are the most common forms of these dreaded diseases which annually cause more than one-quarter of the deaths in this country.

Remedies for catarrh are almost as numerous as catarrh sufferers, but very few have any actual merit as a cure, the only good derived being simply a temporary relief.

There is, however, a very effective remedy recently discovered which is rapidly becoming famous for its great value in relieving and permanently curing all forms of catarrhal diseases, whether located in the head, throat, lungs or stomach.

This new catarrh cure is principally composed of a gum derived from the Eucalyptus tree, and this gum possesses extraordinary healing and antiseptic properties. It is taken internally in the form of a lozenge or tablet, pleasant to the taste and so harmless that little children take them with safety and benefit.

Eucalyptus oil and the bark are sometimes used, but are not so convenient nor so palatable as the gum.

Undoubtedly the best quality is found in Stuart's Catarrh Tablets, which may be found in any drug store, and any catarrh sufferer who has tried douches, inhalers and liquid medicines will be surprised at the rapid improvement after a few days' use of Stuart's Catarrh Tablets, which are composed of the gum of the Eucalyptus tree, combined with other antiseptics which destroy the germs of catarrh in the blood and expel the catarrhal poison from the system.

Dr. Ramsdell in speaking of catarrh and its cure says: "After many experiments I have given up the idea of curing catarrh by the use of inhalers, washes, salves or liquid medicines. I have always had the best results from Stuart's Catarrh Tablets; the red gum and other valuable antiseptics contained in these tablets make them, in my opinion, far superior to any of the numerous catarrh remedies so extensively advertised. The fact that Stuart's Catarrh Tablets are sold in drug stores, under protection of a trademark, should not prejudice conscientious physicians against them because their undoubted merit and harmless character make them a remedy which every catarrh sufferer may use with perfect safety and the prospect of a permanent cure.

For colds in the head, for coughs, catarrhal deafness and catarrh of the stomach and liver, people who have tried them say that Stuart's Catarrh Tablets are a household necessity.

## BYESVILLE, O., PUBLIC SCHOOL.



12 Room School, gray brick and stone, hot air heating, height of stories 13 1/2 feet.  
Contract price, \$16,200.

Architect de Bobula

Marietta, O.

MAIN OFFICE, ZANESVILLE, O.

Cambridge, O.

Economical Arrangements of School Houses a Specialty.

## Teachers' Salaries.

(Continued from Page 6\*)

month until the maximum is reached. Lecture courses simply not accepted. Courses in summer schools elsewhere will be accepted as the equivalent of similar work in the University of Nebraska under such regulations as the examining committee may impose. Summer travel, attendance at national educational meetings and special courses and lessons, when taken with a view to better preparation for the work of the school-room, may be accepted as a substitute for the professional work, for special increase in salary, under such regulations as the committee on teachers may prescribe, but the amount thus allowed shall not exceed one hour.

b. *Special Increase.*—Principals and teachers holding first or second grade certificates who have attained the maximum salary within their class and who, during the year preceding, have completed work equivalent to not less than two hours, shall receive for each two hours thus completed, 50 cents per month additional salary, the total increase thus allowed not to exceed \$1.00 per month in any year nor \$10.00 per month in all.

### HIGH SCHOOL.

16. To be eligible to a position as a full instructor in the high school it shall be necessary that the applicant shall have completed studies equivalent to a full college or university course and shall have had one year of experience.

17. Except by special action of the board a teacher with the minimum of experience shall receive fifty dollars per month. The increase shall take place according to the following schedule.

One years' experience.....	\$50.00
Two years' experience.....	60.00
Three years' experience.....	67.00
Four years' experience.....	72.00
Five years' experience.....	75.00

Above the maximum special increase shall be allowed on the conditions prescribed in Rule 14b, except that the total increase thus earned shall not exceed \$5.00.

18. *Assistants in High School.*—Except by special vote of the board, laboratory supervision in the high school shall be paid not to exceed 20 cents per hour. No assistant shall receive over \$8.50 per class taught, this compensation to call for twenty periods of class or laboratory service and to cover all labor of preparation and of correction. Appointment to class work calling for more than 20 cents per hour shall be made only on the authority of the board.

Except by special vote of the board, the maximum work and salary allowed assistants shall be as follows:

	Laboratory Work. Hours.	Other Work. Hours.	Salary.
(1) To assistants with no class work.....	..	..	\$35.00
(2) To assistants with one class .....	100	40	37.00
(3) To assistants with two classes .....	80	40	40.00
(4) To assistants with three classes.....	60	40	45.00
(5) To assistants with four classes .....	40	40	48.00

19. Substitute teachers in the grades shall be paid for actual time of service, according to experience, not to exceed \$50.00 per month. The pay of substitutes in the high school shall not exceed \$60.00 per month.

20. Increase of salary on account of experience will always begin with the opening of the school year and never at other times, except in the case of the promotion of assistants.

21. *Absence and Sickness.*—When a teacher is absent not to exceed five days, on account of

sickness or of sickness or death in the family, no deduction shall be made for time lost. For absence exceeding five days, but not exceeding twenty, one-half shall be deducted from the salary. Teachers absent from causes other than those above specified or for more than twenty days for any cause shall forfeit salary during the continuance of such absence. Whenever a teacher shall be temporarily absent from school she shall, as early as possible, notify the principal, who shall send notice to the office of the superintendent.

### ELECTION OF TEACHERS.

22. The annual election of teachers shall take place as soon after the first regular meeting in May of each year as is practicable. Prior to this, the superintendent shall submit to the teachers' committee his recommendations concerning teachers in the employ of the board, giving due consideration to the reports received from principals.

23. Principals shall, at the end of the year and at such other times during the year as the superintendent may direct, report upon the character of the work done by all teachers under his (principal's) authority.

24. In the elementary schools the superintendent alone shall have the right to nominate teachers, and no teacher shall be elected without his recommendation. When new teachers are to be elected, the superintendent shall recommend to the teachers' committee candidates whom he considers competent for the positions, with a statement of their qualifications, and the committee shall then select from this list a sufficient number for the positions to be filled and recommend the same to the board for election. The nomination of high school teachers shall be made by the superintendent and the principal of the high school jointly. No teacher shall be elected to a regular position in the schools who does not meet the requirement for a fourth grade certificate.

25. *RESERVE TEACHERS.*—At the annual election and at such other times as may seem desirable, after filling all vacancies, the board shall elect a number of teachers, not to exceed fifteen, who shall be subject to assignment at the discretion of the superintendent and chairman of the teachers' committee, but shall receive no pay until such assignment is made.

26. Teachers whose work and conduct are satisfactory who may wish to pursue studies calculated to prepare them for better service may be granted leave of absence by vote of the board for a time not to exceed the balance of the term for which they were elected. Such teachers shall be placed on the reserve list, and on the expiration of their leave of absence shall be eligible to re-election the same as if in active service. The board assumes no obligation, however, with reference to assignment to place or grade, and any act or condition which would have justified the board in declining to re-elect the teacher will be sufficient cause for declining to assign said teacher again to duty.

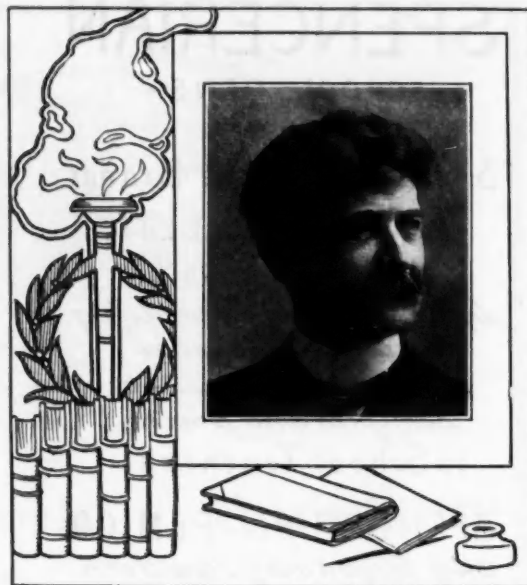
\*Note: This rule shall take effect May 1, 1903.

Note: This rule shall take effect May 1, 1903.

South Omaha, Neb.—One hundred pupils of the Lowell school, the other day, held an indignation meeting at recess, and instead of returning to their desks when the bell rang they formed in line and marched to the police court to demand the arrest of their principal, Miss Florence Moore.

They appeared before Judge King and stated that Miss Moore had beaten them with straps and rulers. The children range in age from 5 to 15 years.

Richmond, Va.—The National Dental Association, the Virginia State Dental Association and the Richmond Dental Association made a united request to examine the teeth of the chil-



HERBERT E. MILES,  
Member School Board, Racine, Wis.

dren attending the schools, in the interest of statistics the associations are collecting, but the board decided that the project was inadvisable.

H. E. Miles, member School Board, Racine, Wis., is a young man, not 40 years of age. His ability as a shrewd, conservative and careful business man is known to the commercial circles of the Northwest. He is the president of the Racine Wagon and Carriage Company, which is the largest business of its kind in the world. Besides being a good business man Mr. Miles is an enterprising and progressive citizen, taking great interest in the educational institutions of his city. He has presented to the various public schools several hundred of the finest pictures and portraits to be found in the old world, from the selections of the best artists, and it was through his generous donations that manual training was introduced. Racine can well feel proud of having so public spirited a citizen as Mr. Miles.

## A Doctor's Experience.

Medicine not needed in this case.

It is hard to convince some people that coffee does them an injury! They lay their bad feelings to almost every cause but the true and unsuspected one.

But the doctor knows; his wide experience has proven to him that to some systems coffee is an insidious poison that undermines the health.

Ask the doctor if coffee is the cause of constipation, stomach and nervous troubles.

"I have been a coffee drinker all my life. I am now 42 years old and when taken sick two years ago with nervous prostration, my doctor said that my nervous system was broken down and that I would have to give up coffee. I got so weak and shaky I could not work, and reading your advertisement of Postum Food Coffee, I asked my grocer if he had any of it. He said 'Yes,' and that he used it in his family and it was all it claimed to be.

"So I quit coffee and commenced to use Postum steadily and found in about two weeks' time I could sleep soundly at night and get up in the morning feeling fresh and well. In about two months I began to gain flesh. I only weighed 146 pounds when I commenced on Postum and now I weigh 167 and feel better than I did at 20 years of age.

"I am working every day and sleep well at night. My two children were great coffee drinkers, but they have not drank any since Postum came into the house, and are far more healthy than they were before." Stewart M. Hall, Fairfield, W. Va.



# EAGLE PENCIL COMPANY,

377-379 Broadway, NEW YORK CITY.

Manufacture the largest variety of **Lead Pencils, Colored Pencils, Penholders, Rubber Erasers, Steel Pens, Pencil Compasses, etc.,** which are unequalled for Schools or General Use. Before purchasing your supplies, send for samples and prices and mention this publication.

## The School Director.

For all the sins against modern education, is he only in fault?

He may be personally guilty of all manner of official dereliction; he may be guilty of perjury in holding the oath of office in contempt; he may conspire to defraud, may attempt to bribe, may neglect all official duty; he may be stupid, unable to comprehend the nature of the office, and be utterly unable to discharge any of its higher duties; yet he is not alone the guilty one, nor is he primarily responsible, says The Teacher. The crime or fault rests upon him; yet other shoulders must bear their share of the wrong. Let us not be misunderstood. These heavy charges of unfaithfulness to official duty do not lie against all members of school boards, nor even against the majority of the members in many of the school districts. Such charges are not new, nor confined to any particular section of the country. In all school boards there are men of high character, of noble purpose, men who see in the schools the means whereby American manhood may be constantly elevated and protected, and who see in this manhood the happiness of the individual and the greatness of the state. Who then is responsible for the wrong doing that pervades or infects the school boards? The system of ward or township leadership which deprives the people of any direct voice in the choice of rulers of any kind? The people apparently do not know the extent of this interference in educational matters. They are asked to nominate men for the office of school director by means of the ward conventions. They are

asked to ratify the choice of these conventions at the general elections; yet one man has named all these officials long before the convention was called or election held. These men, so named, are supposed to be the free choice of the people, yet they are required at all times to do the bidding of the master that first named them, to elect teachers and janitors named by him, to give whatever work is required to be done to parties named by him, to play the puppet to his pulling of the string, to chorus his singing, to dance to his fiddling.

Why do these men stay in the school boards? Ordinary manhood should revolt at the meanness of the office and should hurriedly resign to escape the attendant shame. Some men do revolt; others stay until the end of their term of office, hoping to prevent at least some of the wrong doing; but the rounder who is in the office for personal gain, remains and turns to the assessment of teachers for supposed party purposes, and occasionally secures teachers for vacant positions for a consideration. Is the ward leader to blame? The people do not realize the nature of the wrong done to American progress by their neglect. It is passed by as a matter of little moment. The schools open and close day by day, the work goes on, grade passes into grade, upward and outward; the schools are working successfully; why should the people care? They do not recognize the fact that this success is not due in any way to the local administration of the schools, and that whatever good is found is due to the teachership alone, nor do they realize the much greater degree of success that would surely be attained under a clean and competent modern system of administration.

After all is said and done it is the people that are to blame in permitting such a system of school government to remain. The much vaunted *vox populi* is a goddess very old, and now blind, deaf and dumb. It is but a pretense of sanctity, of virtue, of good sense, of justice, of patriotism; it is a reality of deceit, of cowardice, of wrong doing, a *particeps criminis*, or an accessory before and after the fact in all crimes against the majesty and integrity of the law.

Is there no remedy? The people will not act; the spirit of commercialism pervades all classes; a dollar made in honest trade is worth more than a hundred lost by the looting of the public treasury. The people are to blame. They will not take cognizance of these great wrongs in all lines of public office. Shall it continue? How can it be remedied?

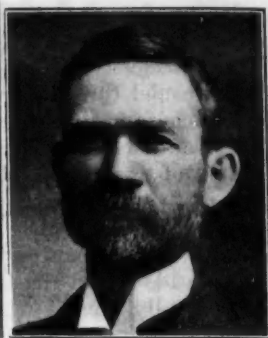
Grand Rapids, Mich.—Talk of making spelling a compulsory study in the high school brought forth the following remarks from one of the trustees:

"It would be a very good thing for our school children if instead of so much of this fancy work we are giving them, they could have a little more of the practical study that would count after they have been graduated. What does all of this dissecting of frogs, analysis of fish bones and cutting up of flowers amount to as far as practicability goes?"

"The pupils spend an hour and half each day in the botany class, taking apart flowers, the like of which they may never see again, and finding to what family and genus they belong, learning to pronounce the species' cognomens, words that outside of that class they will never have occasion to use, unless they happen to be making a



F. G. McMILLAN,  
Member Board of Education,  
Minneapolis.



JAMES M. WILSON,  
Member Board of Education,  
St. Joseph, Mo.

specialty of that line of work. We are gradually making more and more a specialty of this science work; are introducing it in the lower grades, pushing out the good old reading, writing, arithmetic, geography, spelling and language. It is high time that some of the high school scholars learned to spell. Take up any test paper in the school and you are likely to see a half dozen misspelled words. As it now is, the time is too much taken up with other things to permit attention to spelling, after the lower grades. In my opinion it is a mistake which frequent applications of the spelling bee will tend to aid if not remedy."

Superintendent Edwin G. Cooley of Chicago was offered the presidency of the University of the state of Washington, but refused it.

The American College in Strassburg, Alsace, is an institution for the education of American boys in the environments of the German and French languages, supplementing study with travel, conducted by Mr. David K. Goss, A. B., sometime Fellow in Cornell, resident in Berlin and Heidelberg, formerly superintendent Indianapolis schools and member and secretary of the Indiana State Board of Education.

## Cruel Methods

Of Treating Piles and Rectal Diseases.

The old methods of treating piles by the knife, by ligature or dilation, besides causing intense pain and frequently collapse and death, are now known to be worse than useless as far as actually curing the trouble is concerned.

Derangement of the liver and other internal organs, as well as constipation, often causes piles, and it is a mistake to treat it as a purely local disease; this is the reason why salves and ointments have so little effect and the widespread success of the Pyramid Pile Cure has demonstrated it.

The Pyramid Pile Cure is not a salve nor ointment but is in suppository form, which is applied at night, absorbed into the sensitive rectal membrane and acts both as a local and constitutional treatment, and in cases of many years standing has made thousands of permanent cures.

Many pile sufferers who have undergone surgical operations without relief or cure have been surprised by results from a few weeks' treatment with the Pyramid suppository.

The relief from pain is so immediate that patients sometimes imagine that the Pyramid contains opiates or cocaine, but such is not the case; it is guaranteed absolutely free from any injurious drug.

The cure is the result of the healing oils and astringent properties of the remedy, which cause the little tumors and congested blood vessels to contract and a natural circulation is established.

All druggists sell the Pyramid Pile Cure at 50 cents for full-sized package.

A little book on cause and cure of piles mailed free by addressing Pyramid Drug Co., Marshall, Mich.

**ASTHMA** CURED TO STAY CURED.  
A complete, lasting, constitutional cure, not just a "relief. Absolutely different from all sprays, smokes and so called "cures." Over 52,000 patients. Attacks never return. Cause eradicated. Health restored. Whole system built up. Book 14 Free. DR. HAYES, Buffalo, N. Y.

"Fall! Fall! In the bright lexicon of Youth there is no such word as FAIL!"  
—Cardinal Richelieu.

**THE Cardinal KIDNEY CURE AND TONIC FOR THE BLOOD, KIDNEYS AND THE LIVER.**

MADE BY THE  
**Cardinal Remedy Company**  
NEW YORK AND MINNEAPOLIS.  
**SOLD BY ALL DRUGGISTS.**  
ASK FOR IT. INSIST ON IT. GET IT. TAKE IT.

## The New Morse Publications.

The announcement is made by The Morse Company of New York that the series of the Morse Readers will shortly be completed. Books one, two and three have made their appearance and books four and five are nearing completion.

The authors, Dr. Thos. M. Balliet, superintendent of Springfield, Mass., and Ella M. Powers, of the Primary Educator, are, in themselves, a guarantee that the series will contain all the strong features necessary in modern school readers, and that they are, in all points, pedagogically sound.

The illustrations, which include many reproductions from masterpieces, and the various pen drawings, are all apt to the subject matter. The mechanical work is neat and artistic.

Morse's Educational System and the Natural Movement Method Copy Books are attracting attention, calling forth enthusiastic endorsements on account of their thoroughly unique, and at the same time, practical character.

These books have been made by Wm. A. Whitehouse, who for many years has been Supervisor of Penmanship at Somerville, Mass., and has given the subject of writing in all its technical features most thoughtful consideration.

The natural movement method is a feature which has been most strongly emphasized in the Fourth Book and the following books of the series. The style is medial, but the author claims that the degree of slant is immaterial so long as the natural movement is secured.

A very unique feature of these books is the addition of twenty to twenty-eight adjustable copy slips in the back of each book for elementary work pertaining to the respective books for practice work on loose paper. This work leads up by a gradual process of evolution to the head line copies in the books, and it gives these books a pronounced pedagogical character.

Unlike the old copy books, where children have done their writing with no thought to express anything, but copying mechanically a model, these books give the child interesting and instructive sentences for copy and the books are thoroughly well graded throughout.

The copies of the First Book give form. The Second Book the "Children's Vacation." The Third Book, Hiawatha; the Fourth Book, Life of Lincoln. The Fifth quotations from poets, the Sixth quotations from statesmen, with the dates of birth and death and pen sketches of the authors. Seventh and Eighth on same advanced ideas.

All the books are beautifully illustrated. In the higher books many of the copy slips represent reproductions from the practical work of pupils in the Somerville schools.

When it is realized that the copy slips give more than double the amount of copy material found in other books, the economy of these books at 72 cents per dozen, list price, must be apparent.

The Morse Company have prepared a very attractive descriptive catalogue of these books, which they are sending freely to all sections.

## Text-book News.

Ginn & Co. have put out a new edition of Sir Walter Scott's poetical masterpiece. Edwin Ginn himself has prepared it, and he defends Scott as a desirable author for young people. The book contains a crisp little essay on the kind of classics children should read, an abridgement of Scott's autobiography and of Lockhart's life of the poet, an account of the Highlanders and Borderers of Scotland, the text of the poem and a glossary.

The uniform school book law of Texas will expire in 1903. A strong fight against its reenactment is to be made.

O. P. Barnes, general agent of Ginn & Co. in the western half of the United States, in a recent interview says: "The name and fame of Oregon's school text-book law and its text-book commission have traveled to every part of the United States. Oregon is today getting better value for the money it puts into school books than is any other state in the Union."

According to the last U. S. census, there are fifty-four cities in the state of Illinois having a population of five thousand or over. Of these fifty-four cities, thirty-nine have adopted the Hall Arithmetics, published by the Werner School Book Company, as follows:

Peoria, Springfield, Rockford, Bloomington, Decatur, Rock Island, Moline, Jacksonville, Streator, Lincoln, Sterling, Harvey, Maywood, Quincy, East St. Louis, Aurora, Evanston, Galesburg, Belleville, Danville, Oak Park, Mattoon, Waukegan, Paris, Galena, Spring Valley, Ottawa, Kewanee, Monmouth, Urbana, Centralia, Beardstown, Belvidere, Blue Island, Pana, Chicago Heights, Charleston, De Kalb, Mt. Vernon.

Altogether nearly four hundred cities and towns in the state of Illinois are using the Hall Arithmetics. In Illinois the school law does not require county uniformity, but fully a dozen counties have secured practical uniformity on this series. In a number of these counties the books are in *exclusive use*, and everywhere they afford the highest measure of satisfaction.

In Kansas the State Text-Book Commission is composed of the state superintendent and eight men, who are appointed by the governor.

In Utah the Text-Book Commission is composed of twenty-nine persons, including each of the county superintendents.

Ravenna, O. The board refused an offer of an even exchange of text-books, on the ground that the patrons of the schools are not paupers, but that they are able to pay for their children's books, and would prefer to do so.

## New Adoptions.

Versailles, Ind. Wells' Plane Geometry, Myers' General History and Tarrs' Elementary Geology.

Dallas, Tex. Bennett's Latin Grammar and Bailey's Botany.

Belleville, Mo. Werner Arithmetics.

Troy, O. Lewis' First Manual of Composition, Lewis' Second Manual Composition, Thomas' German Grammar and Collar & Daniels' First Year Latin.

New York, N. Y. Girls' Technical High School—Isaac Pitman Shorthand Instructor.

Pottsville, Pa. Seventy Lessons in Spelling. Munising, Mich. Tarbell's Geography.

Forrest City, Ark. Lights and Literature.

Hurley, Wis. Tarbell's Geography.

Muscatoine, Ia. Hoaldley's Physics.

New Haven, Conn. Isaac Pitman's "Shorthand Instructor."

Salem, O. Davis' Elementary Geography, Beeman & Smith's Academic Algebra, Carpen-

ter's Geographical Reader and Commercial Geography and the Mother Tongue Language Book.

Red Wing, Minn. Tarbell's Geography.

New London, Minn. Pollard's Reading Books.

Newark, N. J. Pitman's Commercial History, McMaster's History and Harvey's Grammar.

Sioux Falls, S. D. Tarbell's Geography.

Mt. Vernon, Wash. Isaac Pitman's "Shorthand Instructor."

Macon, Ga. Jones' History.

Akron, O. McCleary's "Studies in Civics."

Alton, Ill. Hall's Arithmetic Primer and Peters' Modern Chemistry.

Rock Island, Ill. Physiologies published by Krohn & Co.

Waynesboro, Pa. Washington township adoption: Brumbaugh's Readers.

Batavia, N. Y. Blaisdell's "Life and Health."

The following standard works for teaching the French and other languages, by Dr. L. Sauveur, will hereafter be published by Wm. R. Jenkins, 851-853 Sixth avenue, New York City:

Introduction to the Teaching of Living Languages. 12mo, paper, 25 cents.

De l'Enseignement des Langues Vivantes. 12mo, paper, 25 cents.

Causeries avec les Enfants. 12mo, \$1.00.

Petites Causeries. 12mo, \$1.00.

La Parole Francaise. 12mo, \$1.00.

Causeries avec mes Eleves. Illustrated, 12mo, \$1.25.

Contes Merveilleux. 12mo, \$1.50.

Fables de La Fontaine, avec notes. 12mo, \$1.50.

Entretiens sur la Grammaire. 12mo, \$1.50.

Petite Grammaire Francaise pour les Anglais. 12mo, \$1.25.

Corrige des Exercices de la Petite Grammaire Francaise. 12mo, paper, 50 cents.

Corrige des traductions des Causeries avec mes Eleves. 12mo, paper, 25 cents.

Corrige des Exercices et traductions des Petites Causeries. 12mo, paper, 15 cents.

Les Chansons de Beranger, avec notes et commentaires historiques. 12mo, \$1.25.

Premieres Lecons de Grammaire Francaise. By Marie-Louise Sauveur and Susan C. Lougee. 12mo, 75 cents.

Introduction to the Teaching of Ancient Languages. 12mo, paper, 25 cents.

The Vade Mecum of the Latinist. 12mo, paper, 25 cents.

A Word for Word Rendering into English of C. Julius Caesar Commentarii de Bello Gallico, Book 1. 12mo, paper, 25 cents.

Talks with Caesar de Bello Gallico. 12mo, \$1.25.

## A True Saying.

"Most Men Dig Their Graves with Their Teeth."

The wrong kind of food fills more graves than any other cause. It is easy to retain good health by the use of proper food and it is pleasant, too. The Rev. G. M. Lodge of Iowa City, Iowa, made a successful experiment.

"I am 65 years of age and a preacher. Last winter I went to Kansas and had charge of two churches. A little use of Grape-Nuts food made me believe it to be a true brain and nerve builder; I wanted to experiment further with it so I used Grape-Nuts for breakfast and supper for more than three months with the best results. I not only never had better health in my life but the effect on my brain was wonderful. I had become forgetful of names and persons and things, was often unable to recall even the names of old friends.

"After using Grape-Nuts for two weeks forgotten names came to me, and as the days and weeks passed my memory was wonderfully quickened as to names and dates, and mental ability in general. I could preach without manuscript or notes as never before and in a month or less I said to myself, 'Grape-Nuts is a brain food,' and as such I now recommend it.

"It also gives health and blood, nerve and muscle. Cheerfully and earnestly I advise students, clergymen, teachers and all mental workers to use Grape-Nuts steadily and systematically if you wish to excel in mental and literary work, renew your age and feel well. It is the best nerve and brain food I have ever known."



A. T. KINGSBURY,  
Pres. Board of Education,  
Akron, O.



S. H. HADLEY,  
Superintendent of Schools,  
Sharon, Pa.



# Directory for School Supplies

The names given below are those of the leading and most reliable School Supply Houses in the United States. None other can receive a place in this Directory. Everything required in or about a School House may be secured promptly and at the lowest market price by ordering from these Firms.

<b>ARCHITECTS—SCHOOL.</b> W R Parsons & Son Co .....Des Moines, Ia Titus de Bobula.....Zanesville, O	Standard School Furn Co.....Chicago E W A Rowles..... The A H Andrews Co..... Central School Supply Co..... L A Murray & Co.....Kilbourn, Wis	The A H Andrews Co.....Chicago E G Dann Co..... E W A Rowles..... Standard School Furn Co..... Rand, McNally & Co..... L A Murray & Co.....Kilbourn, Wis	<b>MAPS.</b> Peckham, Little & Co.....New York J L Hammett Co.....Boston, New York Phillips School Supply House .....Williamsport, Pa Central Sch Supp H.....Chicago & N Y J M Olcott & Co..... The A H Andrews Co.....Chicago Century School Supply Co..... Rand, McNally & Co..... E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... Weber, Costello, Fricke Co..... Caxton Co..... Western Publishing House..... L A Murray & Co.....Kilbourn, Wis Haney Sch F Co.....Grand Rapids, Mich Nat School Supply Co.....Youngstown, O Sterling Sch Supp Co.....Mt Sterling, O	Standard School Furn Co.....Chicago Union School Furn Co..... Weber, Costello, Fricke Co..... Rand, McNally & Co..... Century School Supply Co..... L A Murray & Co.....Kilbourn, Wis Phillips School Supply House .....Williamsport, Pa
<b>APPARATUS—GENERAL.</b> The A H Andrews Co.....Chicago Columbia School Supply Co..... .....Indianapolis, Ind J M Olcott & Co.....Chicago & N Y E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... Caxton Co..... McConnell School Supply Co..... .....Philadelphia L A Murray & Co.....Kilbourn, Wis Central Sch Supp H.....Chicago & N Y Haney Sch F Co.....Grand Rapids, Mich Phillips School Supply House .....Williamsport, Pa	<b>BOOK-COVERS.</b> Holden Book Cover Co.....Springfield, Mass Triangular Book Cover Co..... .....Munnsville, N Y	<b>FINE STATIONERY.</b> Bunde & Upmeyer.....Milwaukee Phillips School Supply House .....Williamsport, Pa	<b>STEEL CEILINGS.</b> Kinnear & Gager Co.....Columbus, O	<b>SCHOOL FURNITURE.</b> W M Welch & Co.....Chicago Chandler Desk & Seat Co.....Boston Am School Furn Co..... .....New York, Chicago The Caxton Co..... Central Sch Supp H.....Chicago & N Y J M Olcott & Co..... The A H Andrews Co..... E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... Cleveland Sch Furn Co.....Cleveland, O Grand Rapids Sch Furn Co..... Haney Sch F Co.....Grand Rapids, Mich J M Sauder Co.....Marietta, Pa J A Murray & Co.....Kilbourn, Wis Thomas Kane & Co.....Racine, Wis Moore Mfg Co.....Springfield, Mo Piqua School Furn Co.....Piqua, O Milton-Bradley Co.....Springfield, Mass Phillips School Supply House .....Williamsport, Pa Whitaker & Ray Co.....San Francisco, Cal
<b>APPARATUS—SCIENTIFIC.</b> Columbia School Supply Co..... .....Indianapolis, Ind Randolph Jones Co.....Chicago Lain Planetarium Co.....Detroit, Mich	<b>BRUSHES.</b> (For Dustless Sweeping) Milw. Dustless Brush Co..... .....Milwaukee, Wis	<b>FLAGS AND BUNTING.</b> (Manufacturers.) Am Flag Mfg Co.....Easton, Pa (Dealers.) Peckham, Little & Co.....New York J M Olcott & Co.....Chicago & N Y Central Sch Supp H..... The A H Andrews Co.....Chicago E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... Weber, Costello, Fricke Co..... L A Murray & Co.....Kilbourn, Wis Sterling Sch Supp Co.....Mt Sterling, O Phillips School Supply House .....Williamsport, Pa	<b>OPERA CHAIRS.</b> A H Andrews Co.....Chicago	<b>PENCILS.</b> Dixon Crucible Co.....Jersey City, N J Hammett, J L Co.....Boston, N Y Eberhard Faber.....New York Eagle Pencil Co.....
<b>BADGES.</b> Bunde & Upmeyer.....Milwaukee J M Olcott & Co.....Chicago & N Y Central School Supply House..... Peckham, Little & Co.....New York	<b>CHARTS.</b> J M Olcott & Co.....Chicago & N Y Peckham, Little & Co.....New York Central Sch Supp H.....Chicago & N Y The A H Andrews Co.....Chicago Thomas Kane & Co.....Racine, Wis E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... Western Publishing House..... Rand, McNally & Co..... The Caxton Co..... L A Murray & Co.....Kilbourn, Wis Haney Sch F Co.....Grand Rapids, Mich Milton-Bradley Co.....Springfield, Mass Nat School Supply Co.....Youngstown, O Sterling Sch Supp Co.....Mt Sterling, O Phillips School Supply House .....Williamsport, Pa	<b>GLOBES.</b> Peckham, Little & Co.....New York Potter & Putnam Co..... Chandler Adj Chair & Desk .....Boston American School Furn Co..... Cleveland School Furn Works .....New York, Chicago Grand Rapids School Furn Co..... Thos Kane & Co Works .....New York, Chicago The A H Andrews Co..... The Caxton Co..... E W A Rowles..... Rand, McNally & Co..... Standard School Furn Co..... Union School Furn Co..... Weber, Costello, Fricke Co..... J M Olcott & Co.....Chicago & N Y Central School Supply House L A Murray & Co.....Kilbourn, Wis Phillips School Supply House .....Williamsport, Pa	<b>PENCIL SHARPENERS.</b> F H Cook & Co.....Leominster, Mass J M Olcott & Co.....Chicago & N Y E W A Rowles.....Chicago Standard School Furn Co..... N Y Silicate Slate Co.....New York Phillips School Supply House .....Williamsport, Pa	<b>SCHOOL ROOM SCULPTURE.</b> C Hennecke Co.....Milwaukee
<b>BELLS—DEALERS.</b> J M Olcott & Co.....Chicago & N Y Central School Supply House..... The A H Andrews Co.....Chicago E W A Rowles..... Standard School Furniture Co..... C F Weber & Co..... L A Murray & Co.....Kilbourn, Wis Phillips School Supply House .....Williamsport, Pa	<b>CLASS PINS.</b> Bunde & Upmeyer.....Milwaukee, Wis J M Olcott & Co.....Chicago & N Y	<b>CLOCKS—PROGRAM.</b> Fred Frick Clock Co.....Waynesboro, Pa	<b>PENS.</b> (Manufacturers.) Eagle Pencil Co.....New York The Esterbrook Pen Co..... Spencerian Pen Co..... (Dealers.) Eberhard Faber..... Hammett, J L Co.....Boston,	<b>SCHOOL SUPPLIES.</b> Prang Educational Co..... .....New York, Chicago, Boston Chandler Adj Chair & Desk .....Boston Works Chandler & Barber..... Peckham, Little & Co.....New York J W Schermerhorn & Co..... American Sch Furn Co..... .....Chicago,
<b>BELLS—MANUFACTURERS.</b> J B Foote Fdry Co.....Fredericktown, O J M Olcott & Co.....Chicago & N Y St Louis Bell Foundry.....St Louis Am Bell Foundry.....Northville, Mich E W Van Duzen Co.....	<b>CRAYON.</b> J M Olcott & Co.....Chicago & N Y The A H Andrews Co.....Chicago E G Dann Co..... American School Furn Co..... .....New York, Chicago Cleveland School Furn Co..... Grand Rapids School Furn Co..... Thos Kane & Co Works .....New York, Chicago Union School Furn Co..... Standard School Furn Co..... Rand, McNally & Co..... Century School Supply Co..... Chandler Adj Chair & Desk .....Boston Central Sch Supp H.....Chicago & N Y Nat School Supply Co.....Youngstown, O Sterling Sch Supp Co.....Mt Sterling, O Phillips School Supply House .....Williamsport, Pa	<b>HEATING &amp; VENTILATING.</b> Peck-Williamson Co.....Cincinnati, O	<b>PHYSICAL AND CHEMICAL APPARATUS.</b> Columbia School Supply Co..... .....Indianapolis, Ind L E Knott Apparatus Co.....Boston J M Olcott & Co.....Chicago & N Y E G Dann & Co.....Chicago E W A Rowles..... Western Publishing Co..... Central Scientific Co..... L A Murray & Co.....Kilbourn, Wis Phillips School Supply House .....Williamsport, Pa	<b>TEACHERS' AGENCIES.</b> Nat'l Educational Bureau .....Harrisburg, Pa Martin Teachers' Bureau .....Flushing, Mich N E Teachers' Exchange .....Providence, R I Schermerhorn Teachers' Agency .....New York Pratt Teachers' Agency..... Syracuse Teachers' Agency.....Syracuse Albany Teachers' Agency.....Albany Teacher Exchange.....Boston Fisk Teachers' Agency..... Edmonds' Ed Exchange..... Fisher's Teachers' Agency..... Albert Teachers' Agency.....Chicago Clark Teachers' Agency..... Lewis Teachers' Agency..... Independent Teachers' Agency .....Waterloo, Ia
<b>BLACKBOARDS—COMPOSITION.</b> Holly Silicate Slate Co.....New York New York Silicate Slate Co..... Weber, Costello & Fricke Co.....Chicago Central Sch Supp H.....Chicago & N Y J M Olcott & Co..... The A H Andrews Co.....Chicago E W A Rowles..... Standard School Furniture Co..... Union School Furniture Co..... Caxton Co..... L A Murray & Co.....Kilbourn, Wis Haney Sch F Co.....Grand Rapids, Mich Nat School Supply Co.....Youngstown, O Sterling Sch Supp Co.....Mt Sterling, O	<b>BLACKBOARDS—OUTLINE.</b> E G Dann Co.....Chicago J M Olcott & Co.....Chicago & N Y	<b>INK.</b> J M Olcott & Co.....Chicago & N Y E G Dann Co.....Chicago Harry D Kirk..... Mineral Tablet Ink Co.....Pueblo, Colo	<b>PROJECTION LANTERNS.</b> McIntosh Stereopticon Co.....Chicago E W A Rowles.....	<b>TYPEWRITERS.</b> Smith-Premier Typewriter Co..... .....Syracuse, N Y
<b>BLACKBOARDS—SLATE.</b> Peckham, Little & Co.....New York J M Olcott & Co.....Chicago & N Y Chandler Adj Chair & Desk .....Boston Central Sch Supp H.....Chicago & N Y American School Furn Works .....New York, Chicago Cleveland School Furn Works .....New York, Chicago Grand Rapids School Furn Co..... Thos Kane & Co Works.....Racine, Wis The A H Andrews Co..... The Caxton Co..... E W A Rowles..... Standard School Furn Co..... Union School Furn Co..... L A Murray & Co.....Kilbourn, Wis Haney Sch F Co.....Grand Rapids, Mich Nat School Supply Co.....Youngstown, O Sterling Sch Supp Co.....Mt Sterling, O Phillips School Supply House .....Williamsport, Pa	<b>DIPLOMAS.</b> Ames & Rollinson.....New York Peckham, Little & Co..... Central Sch Supp H.....Chicago & N Y J M Olcott & Co..... E W A Rowles.....Chicago Sterling Sch Supp Co.....Mt Sterling, Ill Standard School Furn Co.....Chicago Phillips School Supply House .....Williamsport, Pa	<b>INK WELLS.</b> Squires Ink Well Co.....Pittsburg W A Choate Co.....Albany, N Y Weber, Costello, Fricke Co.....Chicago	<b>PROJECTION SCREENS.</b> McIntosh Stereopticon Co.....Chicago	<b>WINDOW SHADES.</b> Buffalo Fixture Wks.....Buffalo, N Y J M Olcott & Co.....Chicago & N Y
<b>BLANKS.</b> (See School Blanks.)	<b>ERASERS.</b> Weber, Costello & Fricke Co.....Chicago J M Olcott & Co.....Chicago & N Y Peckham, Little & Co.....New York N Y Silicate Slate Co..... Central Sch Supp H.....Chicago & N Y Eberhard Faber.....	<b>MANUAL TRAINING SUPPLIES.</b> Columbia School Supply Co..... .....Indianapolis, Ind Hammacher & Schlemmer.....New York Chandler & Barber.....Boston Milton-Bradley Co.....Springfield, Mass	<b>RUBBER BANDS.</b> Eberhard Faber.....New York	
<b>BLINDS.</b> Central Sch Supp H.....Chicago & N Y J M Olcott & Co.....	<b>ENGRAVERS.</b> Clark Engraving Co.....Milwaukee	<b>MAGIC LANTERNS.</b> McIntosh Stereopticon Co.....Chicago Central Sch Supp H.....Chicago & N Y	<b>SCHOOL BLANKS.</b> J M Olcott & Co.....Chicago & N Y Peckham, Little & Co.....New York Central Sch Supp H.....Chicago & N Y The A H Andrews Co.....Chicago The Caxton Co..... E G Dann Co..... E W A Rowles.....	

## ESTERBROOK'S STEEL PENS.

Ask your stationer for them.

### THE ESTERBROOK PEN CO.

SLANT OR VERTICAL.

We make pens especially adapted for either style and all of first-class quality.



26 JOHN STREET, NEW YORK. WORKS, CAMDEN, N. J.

## New Text-Books in English.

### Harvey's Language Course—Revised

New Language Lessons	\$0 35
New English Grammar	60

### Lyte's English Series

Elementary English	
For Primary and Lower Grammar Grades	35
Elements of Grammar and Composition	
For Upper Grammar Grades	50
Advanced Grammar and Composition	
For Advanced Classes	75

### Metcalf's Language Series

Elementary English	40
English Grammar for Common Schools	60

### Advanced English Grammar

POWELL & CONNOLLY'S Rational Grammar of the English Language. For Grammar Schools	60
BASKERVILLE & SEWELL'S English Grammar for Higher Classes	90

### Maxwell's English Series

First Book in English	40
Introductory Lessons in English Grammar	40
Advanced Lessons in English Grammar	60

### Buehler's Practical Exercises in English

### Butler's School English

### Maxwell and Smith's Writing in English

### Kimball's Structure of the English Sentence

## The Natural Geographies

### Natural Elementary Geography

Linen Binding, Quarto, 144 pages	60 cents
----------------------------------	----------

### Natural Advanced Geography

Linen Binding, Large Quarto, 160 pages	\$1 25
--	--------

The publication of **The Natural Geographies** marks an era in the study and teaching of geography. Some of the distinctive features which characterize this new series are:

1. A Natural Plan of Development, based on Physical Geography, and leading in a natural manner to the study of historical, industrial and commercial geography.
2. Clear and distinct political maps showing correctly the comparative sizes of different countries, and physical maps showing relief by contour lines and different colors, as in government maps.
3. Frequent exercises and reviews leading to the correlation and comparison of the parts of the subject already studied.
4. Topical outlines for language work required by the Courses of Study of the best schools.
5. Supplementary Exercises, including laboratory work and references for collateral reading.
6. Numerous original and appropriate pictures and graphic diagrams to illustrate the text.
7. Clear explanation of each necessary term where it first occurs, and omission of formal definitions at the beginning of the book.
8. Strict accordance, in treatment, with the recommendations of the Committee of Fifteen.

## AMERICAN BOOK COMPANY,

NEW YORK  
CINCINNATI  
CHICAGO

521-531 Wabash Avenue, Chicago.

## The Sadler-Rowe Commercial Texts

Save Teachers' Unnecessary Labor.

A complete series of books in all the commercial branches for high schools and grammar schools.

If you want anything in the line of Bookkeeping, Commercial Arithmetic, Commercial Geography, Commercial Law, Penmanship, Shorthand, Type-writing, English and Correspondence, Spelling, or Blank Books and Stationery, write stating your wants fully to the

## Sadler-Rowe Company,

BALTIMORE, MD

Twelve depositories in the leading cities.



PUBLIC SCHOOL, TWENTY-FIRST WARD, MILWAUKEE, WIS.  
Van Ryn & De Gelleke, Archts., Milwaukee, Wis.

Sound deadening in Floors and Partitions is a far more important item of school house construction than architectural fancy work. If you must reduce your cost, don't cut out the deadening. That can only be put in when the school is built. The fancy work can be put on afterwards.

### Cabot's Deafening "Quilt"

is the standard deadener, and the only one that absorbs and dissipates sound-waves.

Sample and Special book on Schools, sent on request.

**SAMUEL CABOT, Sole Manufacturer,**  
BOSTON, MASS.

Beware of unsanitary imitations.